AFOLUX All-in-One Touch Panel PC

5.6"~19" Multi-functional All-in-One Touch Panel PC

IEI's innovative AFOLUX series is a semi-rugged line of industrial panel PC with IP 64 sealed front panels, and complies with stringent specifications for service automation and for core business related services.

Rooms
X10 Settings
Rooms
Devices
Monitoring
Living
Parent s Bedroom
Anna s room
Home cinema
Swimming pool

►15"~19" All-in-One Touch Panel PC

►AFOLUX 12.1" POS Touch Panel PC

►8.4"~12.1" All-in-One Touch Panel PC

►AFOLUX 15" POS Touch Panel PC

►7" wide screen Touch Panel PC

►AFOLUX KIOSK Touch Panel PC

►5.6"/5.7" Mini- fanless Touch Panel PC

www.ieiworld.com

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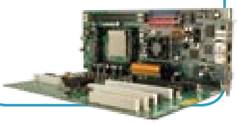
About IEI Technology Corporation

Founded in 2006, IEI Technology Corporation is a worldwide leading IPC provider. Providing hundreds of industrial computer boards, systems and peripherals in thousands of customer applications, and supports OEM/ODM services thereby reducing customers' design time and accelerating product development to help customers advance beyond their market competition.

Main Products

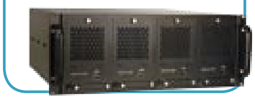
IEI has an innovative R&D team, effective management system, quality assurance and over 400 products passing through more than 100 distributors providing customers with the fastest time-to-market services all over the world.

Single Board Computer

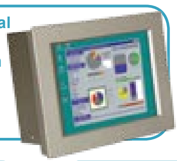


Embedded System

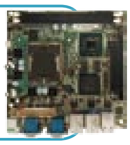
Industrial Chassis



Industrial LCD Solution



Industrial Motherboard



Digital Signage

Medical Solution

Service Automation Solution

POS Solution

HMI

Global Service

As a leading IPC provide, IEI is offers prompt, localized services to our worldwide customers. To provide this kind of service, IEI uses a global network of over 100 distributors in Europe, Asia and North America to bring the fastest response time when servicing customers' needs. From new sales inquiries to ongoing technical support, this localization strategy, backed by IEI's strong technical and logistical support, gives customers the fastest possible response time. Having forged strong relationships with our distributors, their support expertise and technical knowledge of IEI Products are readily accessible to IEI customers worldwide. IEI has set up warehouses in Shanghai and the USA to offer comprehensive system integration hardware, software, customer-driven service and global logistics support.

United States

IEI Technology USA Corp.
168 University Parkway, Pomona,
CA 91768, USA
http://www.usa.ieiworld.com

Headquarters

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http://www.ieiworld.com

China

IEI Technology SH Corp.
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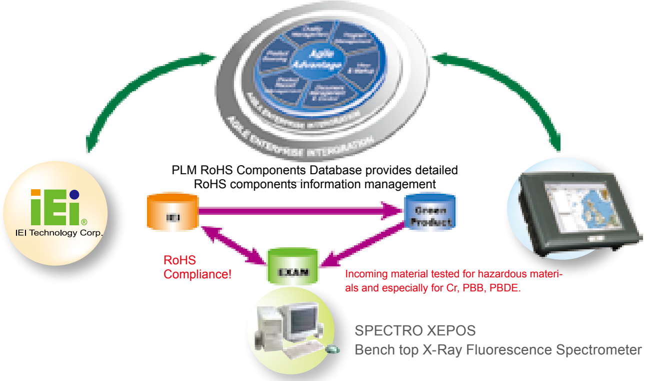
ShangHai, China
http://www.ieiworld.com.cn

RoHS Compliance

IEI is committed to complying with applicable laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) in electrical and electronic products. IEI's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. With IEI's new lead free production, all customers can start working on long term projects without worrying about RoHS regulations.



PLM RoHS Components Database provides detailed RoHS components information management

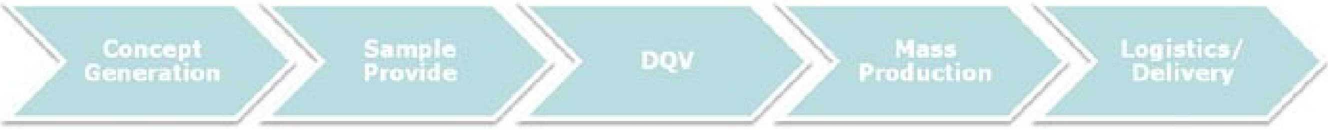
RoHS Compliance!

Incoming material tested for hazardous materials and especially for Cr, PBB, PBDE.

SPECTRO XEPOS
Bench top X-Ray Fluorescence Spectrometer

1 Rapid Customization Service

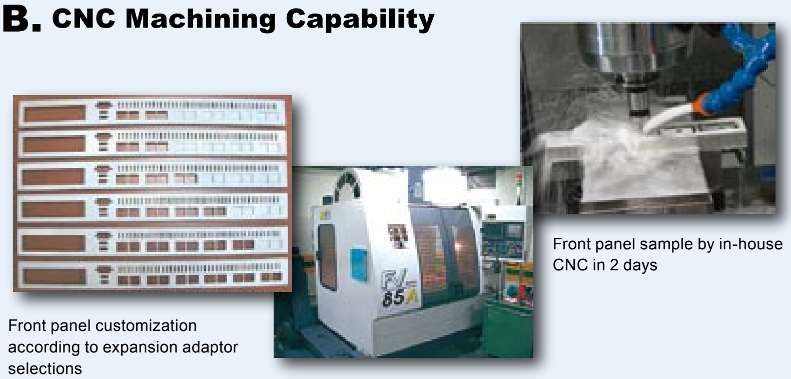
Our customized products are varying from customer idea, and conceptualize with IEI RD engineering team, hardware & software development, customer approval, package design to mass production and delivery. IEI has experience in building prototype to limited-run production . IEI have invested heavily in CNC machining and prototyping capabilies



A. Rapid Prototyping and Manufacturing

Rapid prototypes are a proven way to reduce time to market and decrease direct development costs.

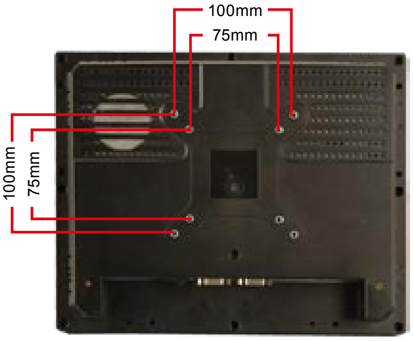
B. CNC Machining Capability



Front panel sample by in-house CNC in 2 days

Front panel customization according to expansion adaptor selections

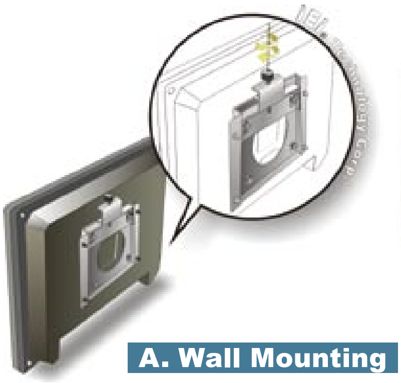
2 Mounting Design



Compliant with VESA Mounting Standards

The AFOLUX panel PC series has four mounting holes compliant with the VESA (Video Electronics Standards Association)mounting standard (75mm x 75mm/100mm x 100mm) on the rear panel for stand mounting and other mounting methods.

The VESA mount consisted of four screws arranged in a square, with the horizontal and vertical distance between the screw centers being 75/100 mm.



A. Wall Mounting

B. ARM Mounting

C. Stand Mounting

D. Panel Mounting

To mount the AFOLUX flat panel PC into a panel, please follow the steps below.

Step 1: Select the position on the panel to mount the flat panel PC.

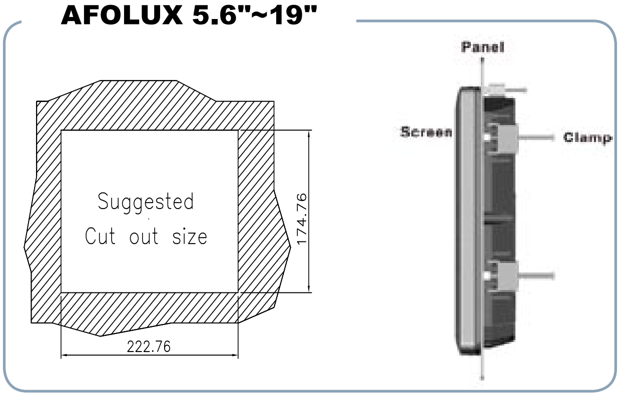
Step 2: Cut out a section from the panel that corresponds to the rear panel dimensions of the flat panel PC. Take care that the panel section that is cut out is smaller than the overall size of the metal frame that surrounds the flat panel PC but just large enough for the rear panel of the flat panel PC to fit through.

Step 3: Slide the flat panel PC through the hole until the aluminum frame is flush against the panel.

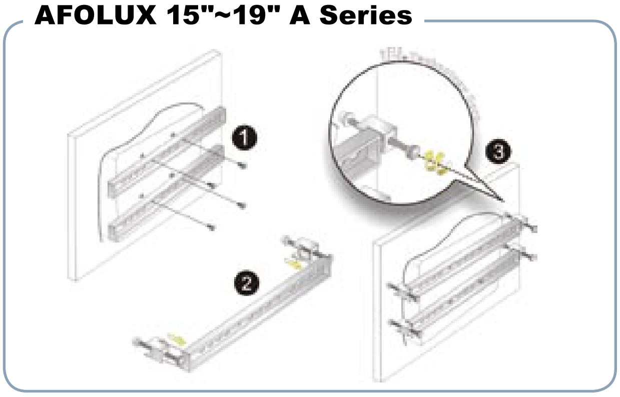
Step 4: Insert the panel mounting clamps into the pre-formed holes along the edges of the chassis, behind the aluminum frame.

Step 5: Tighten the screws that pass through the panel mounting clamps until the plastic caps at the front of all the screws are firmly secured to the panel

AFOLUX 5.6"~19"



AFOLUX 15"~19" A Series



E. Rack Installation

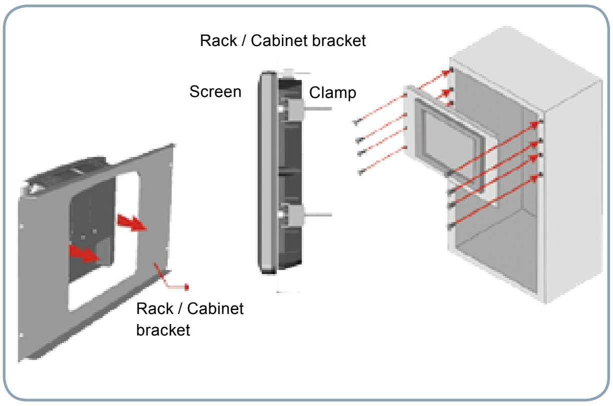
Step 1: Slide the rear chassis of the AFL PPC series flat panel PC through the rack/cabinet bracket until the aluminum frame is flush against the front of the bracket .

Step 2: Insert the rack mounting clamps into the pre-formed holes along the edges of AFL PPC. the flat panel PC, behind the ABS/PC plastic frame. There are a total of 4 rack mounting clamps for AFL PPC and rack mounting clamps for.

Step 3: Tighten the screws that pass through the rack mounting clamps until the plastic caps at the front of all the screws are firmly secured to the bracket .

Step 4: Slide the flat panel PC with the attached rack/cabinet bracket into a rack or cabinet.

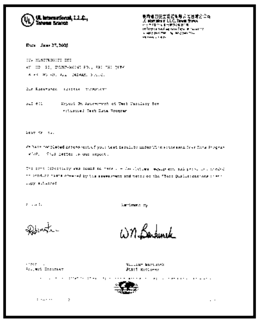
Step 5: Once the flat panel PC with the attached rack/cabinet bracket has been properly inserted into the rack or cabinet, secure the front of the rack/cabinet bracket to the front of the rack or cabinet .



3 Water Dust IP Resistant Testing

IEI's LCD products are designed by front sealing and test in the certified house chamber under UL's witnessed Test Data Program (WTDP).

UL 50 Certificate



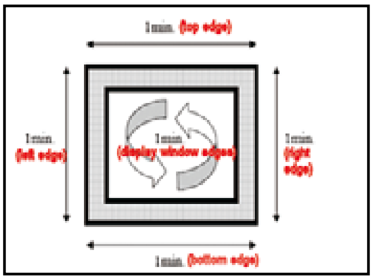
UL International, L.L.C., Taiwan Branch

Date: June 27, 2005

Chamber strickly approved by Underwriters Laboratories Inc.

IEI in house water resistance chamber is approved by UL organization commonly recognized in North America.

Strict Testing



The distance from water hose to EUT is 3M.

The IP Code defined in international standard IEC 60529 classifies the degrees of protection provided against the intrusion of solid objects, dust, accidental contact, and water in electrical enclosures. It consists of the letters IP followed by two digits and an optional letter. The digits indicate conformity with the conditions summarized in the tables below.

First digit

The first digit indicates the level of protection that the enclosure provides against access to hazardous parts

Level	Object size protected against	Effective against
0	-	No protection against contact and ingress of objects
1	>50 mm	Any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part
2	>12.5 mm	Fingers or similar objects
3	>2.5 mm	Tools, thick wires, etc.
4	>1 mm	Most wires, screws, etc.
5	dust protected	Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact
6	dust tight	No ingress of dust; complete protection against contact

Second digit

Protection of the equipment inside the enclosure against harmful ingress of water.

Level	Protected against	Details
0	not protected	—
1	dripping water	Dripping water (vertically falling drops) shall have no harmful effect.
2	dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position.
3	spraying water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect.
4	splashing water	Water splashing against the enclosure from any direction shall have no harmful effect.
5	water jets	Water projected by a nozzle against enclosure from any direction shall have no harmful effects.
6	powerful water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effects
7	immersion up to 1 m	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion).
8	immersion beyond 1 m	The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer.

NEMA Enclosure Rating and IP Rating

NEMA (National Electrical Manufacturers Association) sets the industry standards in the USA for electrical equipment enclosures. The European Standards are determined by the Institute of Petroleum and are sometimes referred to as Ingress Protection (IP) numbers. The standards are listed below.

- IP Classification – addresses the European market
- NEMA Classification – addresses the American market

Table of NEMA Enclosure Rating and Comparison to IP Code

Enclosure Type Number IEC	Enclosure Classification Designation
1	IP 10
2	IP 11
3	IP 54
3R	IP 14
3S	IP 54
4 and 4X	IP 56
5	IP 52
6	IP 67
12	IP 52
13	IP 54

Water Hose

Meter

Strict Compliacne with UL 50 Testing Standards

Test Specifications

	Water Flow Rate	Hose Diameter
IP 64	10.0L/min	0.5mm
IP 65	12.5L/min	6.3mm
IP 66	100L/min	12.5mm
UL 50	246L/min	25.4mm

1.IP 64

2.IP 65

3.IP 66 / UL 50

Quality Assurance

Your IEI embedded industrial appliances have all been rigorously tested in the quality assurance and compliance laboratory at IEI headquarters. To provide you with peace of mind about the quality, durability and compliance of your IEI products, IEI has invested over two million dollars into developing rigorous quality assurance and compliance testing procedures and facilities. Ten IEI quality assurance and compliance tests ensure you receive a durable product that can withstand the harsh operational environments in which embedded industrial appliances are typically used.

Direct customer benefits of our comprehensive quality assurance and compliance testing procedures include:

1. **In-house Reliability facilities**
2. **Product Compliance Testing**
3. **LCD Panel Testing**
4. **Compliance Issues**

1

In-house Reliability facilities

Comprehensive quality assurance tests are performed on all IEI products throughout the product development cycle. Quality assurance tests are initiated in the research and development phase of a product and are continued all the way through to the manufacturing phase. Quality assurance testing throughout the product development cycle ensure all IEI products are able to provide stable performance in the industrial environments they are used.

Acoustic Noise Testing

Vibration and shock Testing

Drop Testing

Line Voltage / Frequency and
Power Consumption Test

Temperature/Humidity Testing

Thermal Testing

2

Product Compliance Testing

IEI has more than 400 products used in a wide variety of applications and environments worldwide. In order to develop time-to-market products that comply with safety, EMC certification and environmental directives across the globe, IEI has three certification-compliant labs including an EMI/RF chamber, EMI chamber and semi-anechoic room. These labs are essential to helping ensure the safety of our products as well as reducing costs and improving the quality of our products and services.

EMC

Conducted/Radiated Emission

IEI EMC anechoic test chambers are used to perform radiated emissions and radiated immunity testing of electrical/electronic equipment to various International specifications such as EN 50147 part 2 / ANSI C63.4 / EN55022 / EN61000-4-3 and various CISPR documents.

Spectrum Analyzer

LISN

ISN

EMI

EMI Chamber

EMI/RF Chamber

Harmonic Emission

ESD Testing (Electrostatic Discharge)

Conducted Disturbance

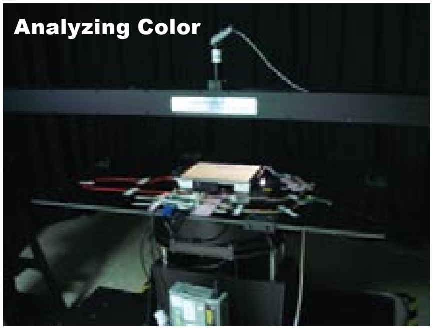
Power Frequency Magnetic Fields

Safety

安規實驗室
Safety Lab

- **UL60950-1/EN60950-1/IEC60950-1**
- **UL508**
- **UL60601-1/EN60601-1-1/IEC60601-1-1**

3 LCD Panel Specialist



FPD Optical Performance Measuring System

Quantify Display Quality – Measure uniformity, contrast ratio, viewing angle, shadowing, chromaticity, color gamut, response time, flicker, gamma, specular and diffuse reflection, power consumption to ensure IEI LCD product quality.

- Able to comply with CIE, JIS, sRGB,TCO’06, VESA measurement specifications
- Qualify IEI all the LCD products

FPD Auto Color Calibration System

- Color temperature and white balance adjustment
- 3D Gamma modification deliver the correct displaying
- Color Tracking modification

4 Compliance Issues

Certificate	Logo	Country	Testing Specifications
CCC	CCC	China	GB 9254
FCC	FC	USA EMI	Part 15B, Part 15C, Part 15E Class A and Class B
EMC/CE	CE	European EMC	EN55011, EN55022, EN60601-1-2, EN300328, EN301489-17
UL	UL	USA Safety	UL60950, UL60601, UL508 & UL50 (by June 2005)
CB	CB	Global Testing Report	IEC60950
VCCI	VCI	Japan EMI	Class A and Class B
Others	EN300328 , EN301489 EN301893		

Most countries now have substantial requirements, meet strict safety regulation and versatile EMC certificates. IEI has the ability to get products certified by :

Affordable Luxury for You

5.6"~19"Multi-functional All-in-One Touch Panel PC

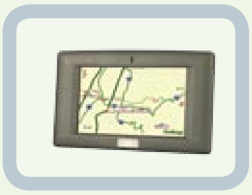
AFOLUX is an epochal all-in-one panel PC system, providing performance superior to commercial PC, tasteful and streamline outlook, and industrial-grade durability. Furthermore, the flexible installation alternatives make AFAOLUX easy to be used just about anywhere.

AFOLUX is designed to provide cost-effective an versatile solutions to meet the vast demand emerging from semi-industrial computing markets. From clinical to factory environments, restaurants to schools, and entertainment to surveillance devices, AFOLUX is your ultimate choice to fulfill a wide spectrum of applications.

Rooms
X10 Settings
Rooms
Devices
Monitoring
Living
Parent s Bedroom
Anna s room
Home cinema
Swimming pool

The Products

5.6"/5.7" Mini- fanless
Touch Panel PC


7" wide screen
Touch Panel PC

8.4"~12.1" All-in-One
Touch Panel PC

15"~19" All-in-One Touch Panel PC

AFOLUX KIOSK Touch Panel PC

AFOLUX POS Panel PC

Light-industrial Grade Compliance

Leading the Wireless Revolution

Value-added Software Service

POS SYSTEM
Cancel
Done
Receipt
Show buttons
text
del
enter
Prune Off
Net Sum
Total

Features

- » Streamless and light-weight design with plastic housing for easy installation
- » Integrated robust 4/5-wire resistive touch screen display and integrated 802.11 wireless LAN adapter
- » Built-in 1.5 W/3 W speakers and line-out extend voice functions for Kiosks, POS and advertising applicaitnos
- » Built-in bluetooth technology rids systems of cables and allows wireless connection to peripheral devices like head phones, printers, barcode readers or game controllers
- » VESA-mountable for flexibility in mounting and deployment
- » Comprehensive set of USB and full legacy I/O ports for peripherals and accessories
- » Enabling easier access to the internet through a HSDPA network (Optional)
- » Support for Windows CE and Windows XP Embedded (Optional)

Bluetooth®
Wi-Fi CERTIFIED®
HSDPA
Integrated Audio
Touch Screen
IP 64

Trustworthy Design

Front Panel Water Proof Design

IP 64 dustproof and waterproof front panel

The AFOLUX front panel is IP 64 compliant. IP 64 compliance guarantees the front panel is dustproof and water-proof. The AFOLUX front panel can withstand any industrial environment where dust and drizzle is encountered.

Waterproof Device

4/5-wire Resistive Touch Screen

It draws your customers in and keeps them involved and quickly control the system just by simple touch.

Benefits:

- Long lifetime (almost ten times of 4 Wire Resistive Touch Screen)
- Finger, gloved hand and stylus activation
- Contaminant proof and liquid resistance
- High accuracy and durability
- High resolution and sensitivity

Scratch Resistance

Resistive and Capacitive Touch Screen Comparison Table

	Resistive	Surface Capacitive
Sensing Method	Hand or Stylus	Hand
Transmittance degree	80%~90%	90%
Touch Accuracy	Good	Normal
Strength	Waterproof, dirtproof, low cost	Fireproof, dirtproof, not easily scratches, Long life
Weakness	Easily scratched	Higher cost, easily affected by EMI

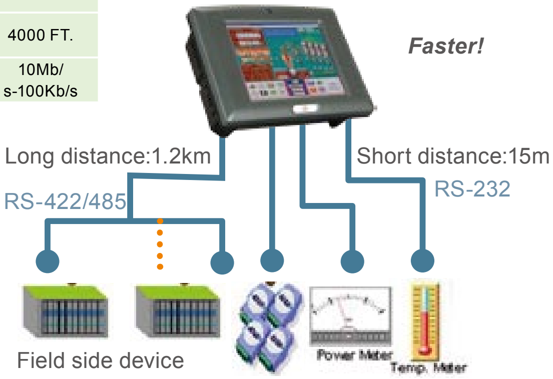
Interactive platform attracts attention

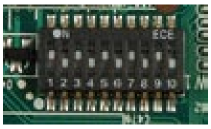
It draws your customers in and keeps them involved. Use it for product or service information, directories, check-in services or event and exhibit details so your customers have the information they need right at their fingertips and through the bluetooth devices.

Selectable RS-232/422/485 for Fast Data Transmission

We provide 2 independent RS-232 and RS-232/422/485 serial ports for connecting data acquisition equipment and many other serial devices to AFOLUX PPC.

	RS-232	RS-422	RS-485
Mode of Operation	Single ended	Differential	Differential
Maximum Cable	50 FT.	4000 FT.	4000 FT.
Max. Data Rate	20kb/s	10Mb/ s-100Kb/s	10Mb/ s-100Kb/s





Selectable RS-232/422/485 by easy setting

High Speed USB 2.0 Connections

Supports USB 2.0 ports to provide data transfer rates up to 480Mb/sec, which is ideal for high-speed demanding I/O peripherals.

HI-SPEED
CERTIFIED USB
480Mbps

The light-industrial grade units are equipped with industrial interfaces and consumer-oriented features for both demanding industrial and commercial applications.

Multimedia Enjoyment

Dual Display (Mirror/Independent)

Increasing demand for dual-display!

Dual display systems are becoming increasingly popular. Multiple display systems enables increased product selling points by increasing the screen space available to each system.

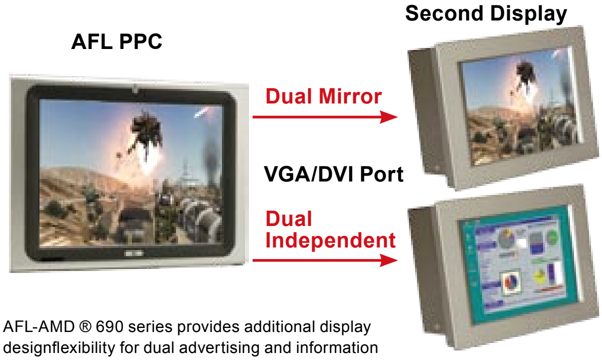
Benefits:

- Saving cost to install
- another digital signage player
- Independent content playback will attract viewers' more attention
- Allowing the main system and second display to play the multiple video/image formats

Interview KIOSK

Dual Display POS

InformationKIOSK



AFL-AMD ® 690 series provides additional display designflexibility for dual advertising and information broadcasting.

2 Integrated Two Stereo 1.5W/3W Speakers Inside

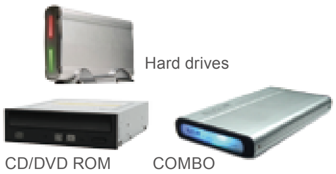
The system has a pair of internal speakers in either side of the AFOLUX PPC creating an enjoyable listening environment without installation external speakers.

The sounds nearly equals to NB

Extended Connectivity

External SATA for External Storage Interface

External SATA interface brings the same performance and features to external storage needs instead of relying on USB or 1394 interfaces.



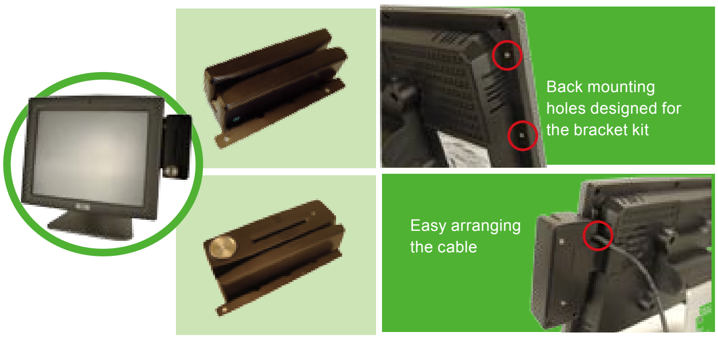
Benefits

- Up to 6 times faster than existing external storage solutions: USB 2.0, & 1394
- Robust and user friendly external connection
- High performance, cost effective expansion storage
- Up to 2 meter shielded cables and connectors

Optional Magnetic Stripe Reader/ Card Reader with Mounting Bracket

The AFOLUX Panel PC is designed around ready for the MSR/card reader devices.

MSR and Smart Card Reader

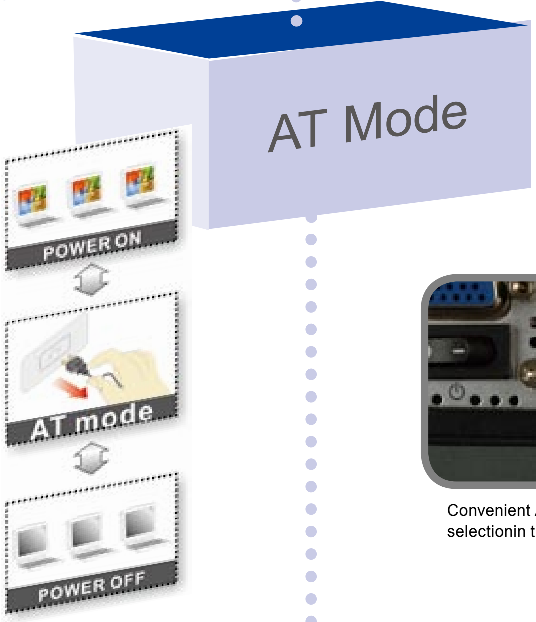


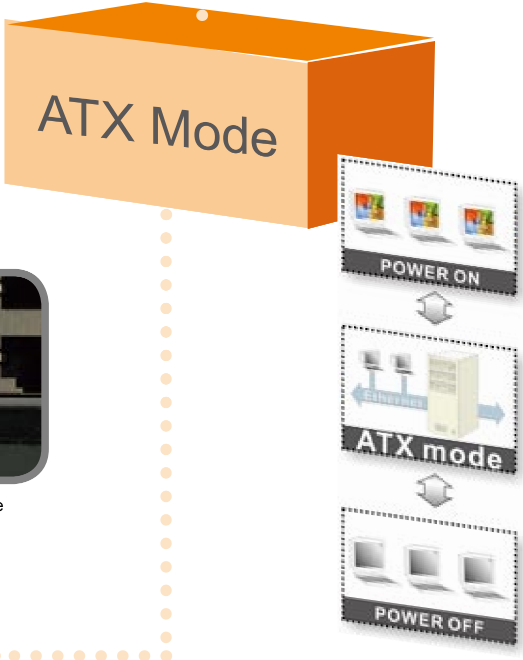
Selectable AT/ATX Power Mode

Flexible AT/ATX power mode easily selected with a switch in front of the rear allows you to select the most suitable power mode for your unique requirements.

ATM
Information kiosk
Work flow

Security surveillance
Advertising terminal
POS


AT Mode
POWER ON
AT mode
POWER OFF


ATX Mode
POWER ON
Ethernet
ATX mode
POWER OFF

Convenient AT/ATXpower mode selectionin the rear!

Easy to turn on/ off with wall/ panel mounting

When implemented in shop flow applications it is easier to control the power through the central plug rather than a power switch.

Automatic start when power connected

When in the AT mode the power is controlled by the central power unit. In AT mode the AFOLUX panel PC automatically starts when the power is connected. This enables multiple panel PCs on a production line to be controlled from a single point.

Power management

ATX mode has a power management function inside that turns the system to standby mode to save power when the panel PC is not used. Therefore, when being used in POS applications, real power savings can be achieved.

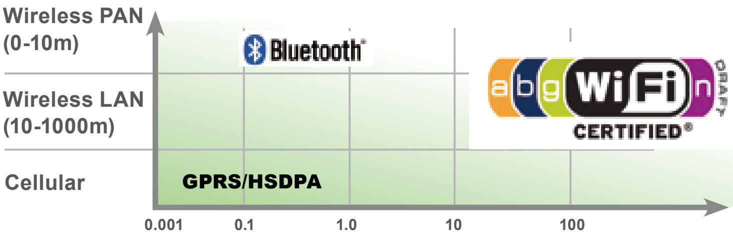
Remote control advantage

The standby function on the ATX mode power supply allows the AFOLUX panel PC to be turned on/off remotely via network. Users can set up each panel PC to be turned on/off at different times. Remote power mode control is perfect for advertising applications. Broadcasting times for each AFOLUX can be set at a single terminal and controlled remotely.

Leading the Wireless Revolution

Get Rid off the Cables, Always Connected on the Cutting Edge

The AFOLUX all-in-one PPC series powered with the latest wireless technology to check your e-mail, browse the INTERNET, and connect with home or office networks, all without wires.



The benefits of Wireless:

Benefits		Traditional System	AFOLUX All-in-One System
Wireless Connection	Without cables installation	X	V **Simplification!**
	Not hinders worker movement ,without lessens man-hour productivity	X	V **Productivity Effective!**
	Without additional purchase of proprietary cables for specific devices	X	V **Cost Effective!**

High Speed WiFi 802.11a/b/g/n WLAN Networking

802.11b/g Wi-Fi, which gives you up to broadband-speed browsing and connectivity, compared to traditional wired LAN.

Hidden Antenna Inside

Integrated PIFA antenna on the AFOLUX ensures an uninterrupted wireless connection. PIFA (Planar Inverted F Antenna) type antenna can receive high-quality, uniform signals in any location from all directions without any signal degradation or impedance and are the most efficient antennas on the market today.

	802.11a	802.11b	802.11g	802.11n
Data Rate (Mbps)	54	11	54	540
Range (Radius Indoor)	35 Meters	38 Meters	38 Meters	250 Meters
Range (Radius Outdoor)	120 Meters	140 Meters	140 Meters	250 Meters
Radio Frequency	5.15 GHz to 5.85 GHz	2.4 GHz to 2.5 GHz	2.4 GHz to 2.5 GHz	2.4 GHz or 5.0 GHz

Enjoy both the speed of wired Ethernet and the mobility of WLAN!

Some of the current and emerging applications that are driving the need for 802.11n are Voice over IP (VoIP), streaming video and music, gaming, and network attached storage.

802.11a

Access to email, instant image and the Internet

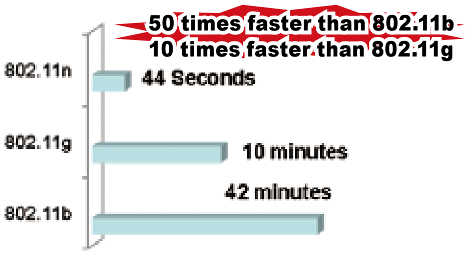
802.11b/g

Streaming music
Streaming video

802.11n

VoIP /Gaming /NAS

Compares the time it would take to transfer a 30-minute video file. At the best data transfer rate, it would take 42 minutes to copy the file using 802.11b, and less than a minute with a 802.11n.



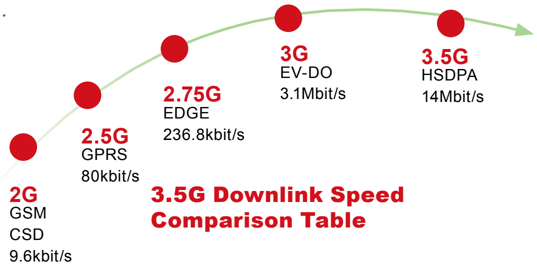
HSDPA Mobile Solution (Optional)

An optional IEI HSDPA module on the AFOLUX all-in-one panel PC enables easier access to the Internet through a WCDMA/GSM network, allowing web browsing, corporate and Internet email, vehicle positioning, remote LAN access, document sharing and collaborative working.

Credit Card Service in the Vhicle

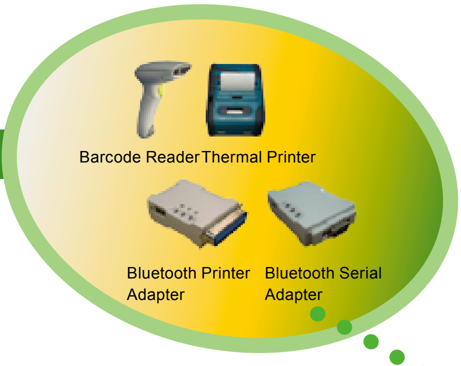
GSM networks allow for rapid connectivity to the Internet, sending data in short bursts on the move.

High connections to HSDPA-enabled cellular networks all over the world.



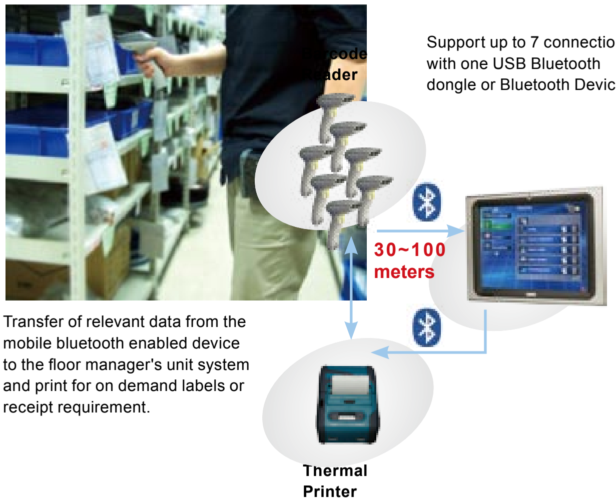
3.5G Downlink Speed Comparison Table

A Industrial Applications


Barcode Reader
Thermal Printer
Bluetooth Printer Adapter
Bluetooth Serial Adapter

Wireless Bar Code Scanner and Thermal Printer

It is always a headache to scan a hard to reach bar code label with a cable attached to the end of the scanner. Therefore, to scann and print without cable limitations has been the dream of many users.


code
ader
30~100 meters
Thermal Printer

Support up to 7 connections with one USB Bluetooth dongle or Bluetooth Devices!

Transfer of relevant data from the mobile bluetooth enabled device to the floor manager's unit system and print for on demand labels or receipt requirement.

Traditional Industrial Device
Wired COM port/USB interface, usage limited to the length of cable

AFL PPC Bluetooth-enabled computing platform

Cordless Benefits

- Maximum freedom for scanning and printing
- Operators can move around the factory site or counter
- Real time data transmission to the host
- Supports both master and client modes connection with other Bluetooth devices

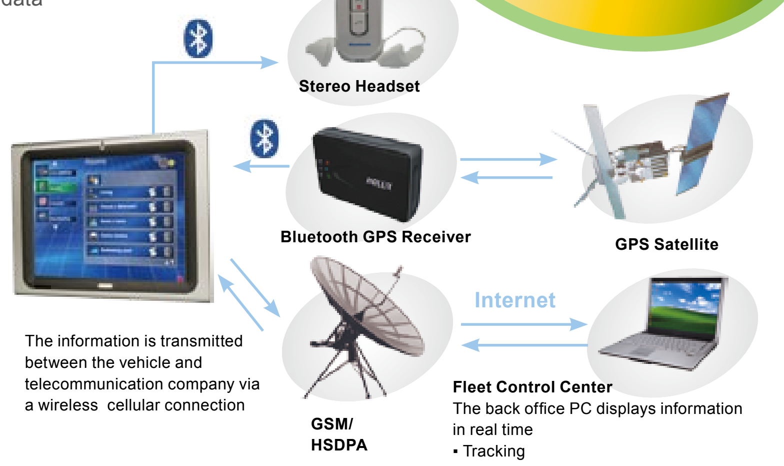
B Extension Applications

GPS
Stereo Headset

Bluetooth Headset and GPS Receiver

A Bluetooth enabled GPS device installed in the vehicle enables real-time monitoring and recording of vehicle activity data including the vehicle's speed, position, direction etc.

Fleet Management

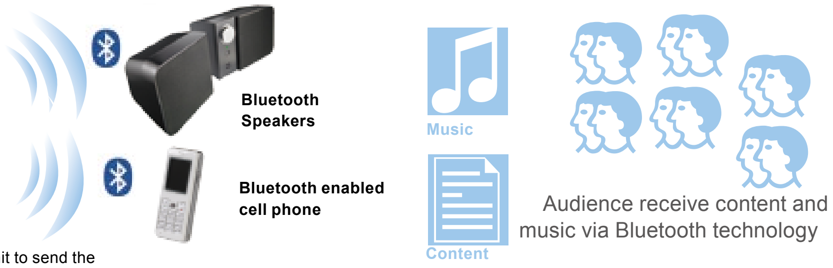

Stereo Headset
Bluetooth GPS Receiver
GPS Satellite
Internet
GSM/
HSDPA

The information is transmitted between the vehicle and telecommunication company via a wireless cellular connection

Fleet Control Center
The back office PC displays information in real time
- Tracking
- Messaging & Navigation
- Telemetry Monitoring

Push Marketing

AFOLUX PPC being used as an advertising unit to send the promotion content via Bluetooth technology


Bluetooth Speakers
Bluetooth enabled cell phone
Music
Content

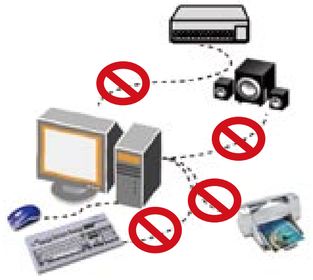
Audience receive content and music via Bluetooth technology

C Input Applications

Wireless keyboard, keypad and mouse

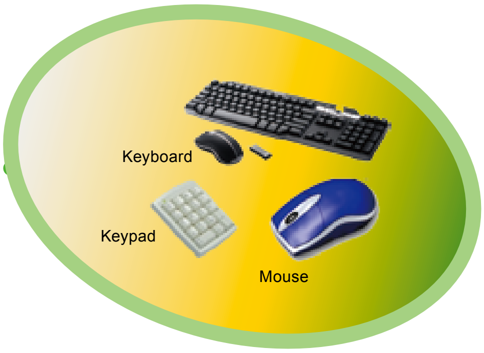
Get the most at your desk with a simplified wireless work space.

Space Sensibility



Make your desk space sleek and organized

Rooms
X10 Settings
Rooms
Devices
Monitoring
Living
Parent s Bedroom
Anna s room
Home cinema
Swimming pool


Keyboard
Keypad
Mouse

Bluetooth Wireless Connectivity

Do wires still inconvenience you when you try to connect peripherals to your system? Bluetooth module integrated into the AFOLUX all-in-one panel PC transmits information between peripheral devices through a complete Bluetooth network.

Bluetooth®

Bluetooth Technology

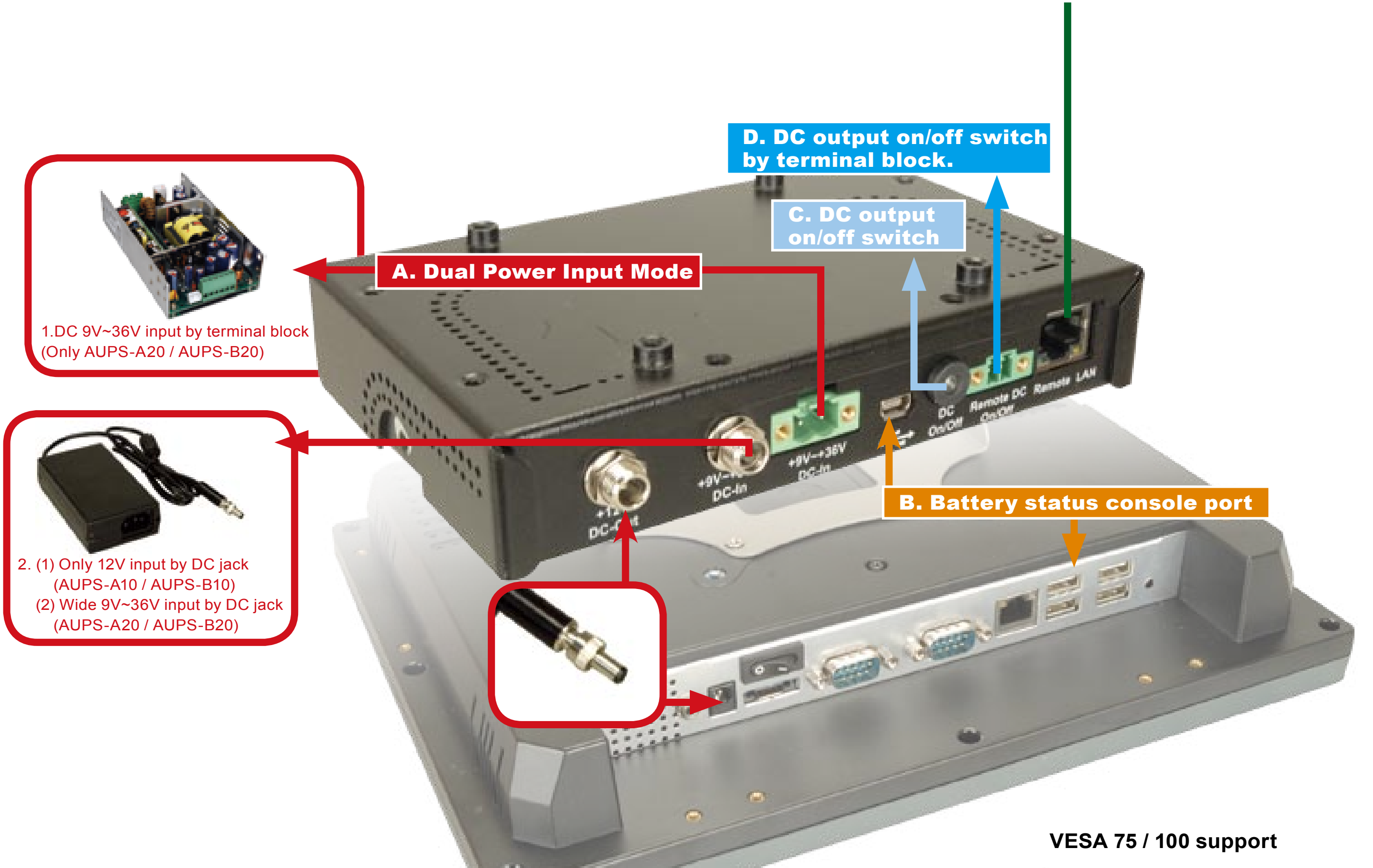
- Towards voice and data applications
- Operates in the unlicensed 2.4 GHz spectrum
- Operates over a distance of 10 meters or 100 meters depending on the Bluetooth device class.
- Able to penetrate solid objects
- Able to connect up to seven bluetooth-enabled devices simultaneously

Bluetooth Module Inside

Optional VESA Mount DC UPS Module

AUPS

VESA Mount Intelligent UPS Module



E. Networking UPS Management Port by RJ-45

D. DC output on/off switch by terminal block.

C. DC output on/off switch

A. Dual Power Input Mode

1.DC 9V~36V input by terminal block (Only AUPS-A20 / AUPS-B20)

2. (1) Only 12V input by DC jack (AUPS-A10 / AUPS-B10)
(2) Wide 9V~36V input by DC jack (AUPS-A20 / AUPS-B20)

B. Battery status console port

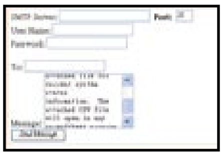
VESA 75 / 100 support

Feature:
1. VESA 75/100 standard for all AFL products
2. Wide range power voltage 9V-36V by DC jack or terminal block input
3. Enhance charger and battery status utility network remote management software

► Specifications

VESA Type		VESA75		VESA100	
Model Name		AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20
Output	Voltage	+12V +/-5%	+12V +/-5%	+12V +/-5%	+12V +/-5%
	Output Power	60W	60W	100W	100W
Input	Voltage	+12V	+9V~+36V	+12V	+9V~+36V
Battery	Type	Li-Ion 2S2P	Li-Ion 2S2P	Li-Ion 4S2P	Li-Ion 4S2P
	Normal Voltage	7.4V 3800mAH	7.4V 3800mAH	14.8V, 3800mAH	14.8V, 3800mAH
	Backup	60W/10Min	60W/10Min	100W/10Min	100W/10Min
Physical	Dimensions	150mm(L) * 95mm(W)*34mm(H)	150mm(L) * 95mm(W)*34mm(H)	170mm(L) * 150mm(W)*34mm(H)	170mm(L) * 150mm(W)*34mm(H)
	Weight	1.2kg	1.2kg	1.8kg	1.8kg
LED Indicator	Green	DC power input	DC power input	DC power input	DC power input
	Yellow	Battery charging	Battery charging	Battery charging	Battery charging
	Orange	Bettery discharging	Bettery discharging	Bettery discharging	Bettery discharging
Environment	Operating Tem.	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Tem.	-20℃~50℃	-20℃~50℃	-20℃~50℃	-20℃~50℃

• Network remote management software


Port
To:
Message:

E-Mail Alarming

E-mail

Board Configuration

configuration

Sataus

File Uploads

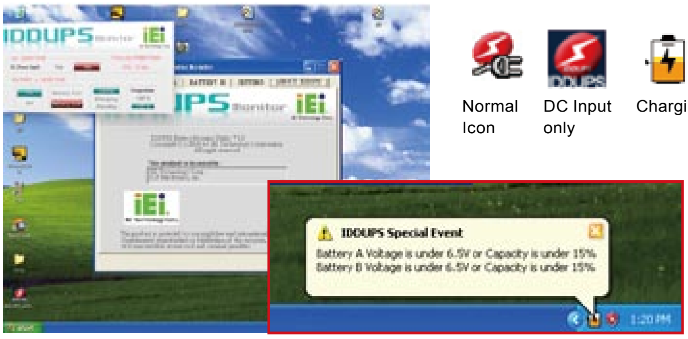
Upload

Battery Low / Temperature High Alarm

IEI UPS will pop-up the status screen to notify user that special event, Battery Low or Temperature over 60°C, has happened, if this function is enabled.

Special event Pop-up : ● Yes ● No

• Battery Monitoring Utility


IDDUPS Monitor
iEi
1:20 PM

IDDUPS Special Event

Battery A Voltage is under 6.5V or Capacity is under 15%
Battery B Voltage is under 6.5V or Capacity is under 15%

IDDUPS

Normal Icon	DC Input only	Charging	Capacity 50%	Capacity 100%

IEI smart battery software

1. Battery detection
2. Battery capacity status
3. Battery charge
4. DC Input Indicator
5. Battery Indicator
6. Over Temp Indicator
7. Low Battery Alarm
8. Connection port detection

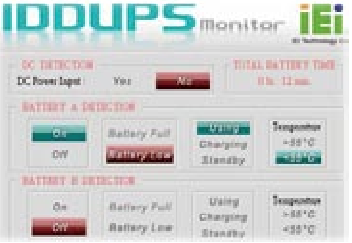
In addition, the utility software provide the following functions:

» Current Power source.
» Battery status.
» Charging status.
» Percentage remaining

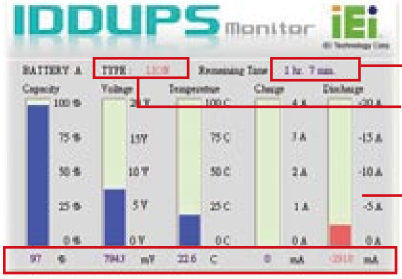
Benefit:

» Provide power for certain period of time after a power fail has occurred.
» Continue to provide stable power to equipment during line sags & spikes.
» Absorb power surges & transients.
» Smooth out noisy power sources.

►DC / Battery input detection


IDDUPS Monitor
iEi
DC DETECTION
DC Power Input
Yes
No
TOTAL BATTERY TIME
BATTERY A DETECTION
On
Off
Battery Full
Battery Low
Using
Charging
Standby
Temperature
BATTERY B DETECTION

►Battery status real time monitoring


IDDUPS Monitor
iEi
BATTERY A
TYPE
Remaining Time
Capacity
Voltage
Temperature
Charge
Discharge
100 %
75 %
50 %
25 %
0 %
15V
10 V
5 V
0 V
100 C
75 C
50 C
25 C
0 C
4 A
3 A
2 A
1 A
0 A
-20 A
-15 A
-10 A
-5 A
0 A

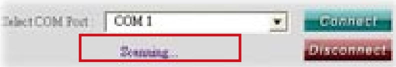
Battery usage remaining time

Battery Type

Battery capacity bar

Real time information updating

►Connection Port auto detection


Select COM Port
COM 1
Connect
Scanning...
Disconnect

Auto-Scan Com port

LED Signal Table

	LED 1	LED 2	LED 3
Color	Green	Yellow	Orange
Function	Power Input	Charger Status	Battery Status
Dark	DC Power Out		
Light	DC Power In	Discharging	Battery Full
Blinking		Charging	Battery Low

► Ordering Information

Part Number	Description
AUPS-A10-R10	VESA 75, DC 12V input 60W UPS module with 3800mAH, 2S2P Li-Ion battery
AUPS-A20-R10	VESA 75, DC 9~36V input 60W UPS module with 3800mAH, 2S2P Li-Ion battery
AUPS-B10-R10	VESA 100, DC 12V input 100W UPS module with 3800mAH, 4S4P Li-Ion battery
AUPS-B20-R10	VESA 100, DC 9~36V input 100W UPS module with 3800mAH, 4S4P Li-Ion battery

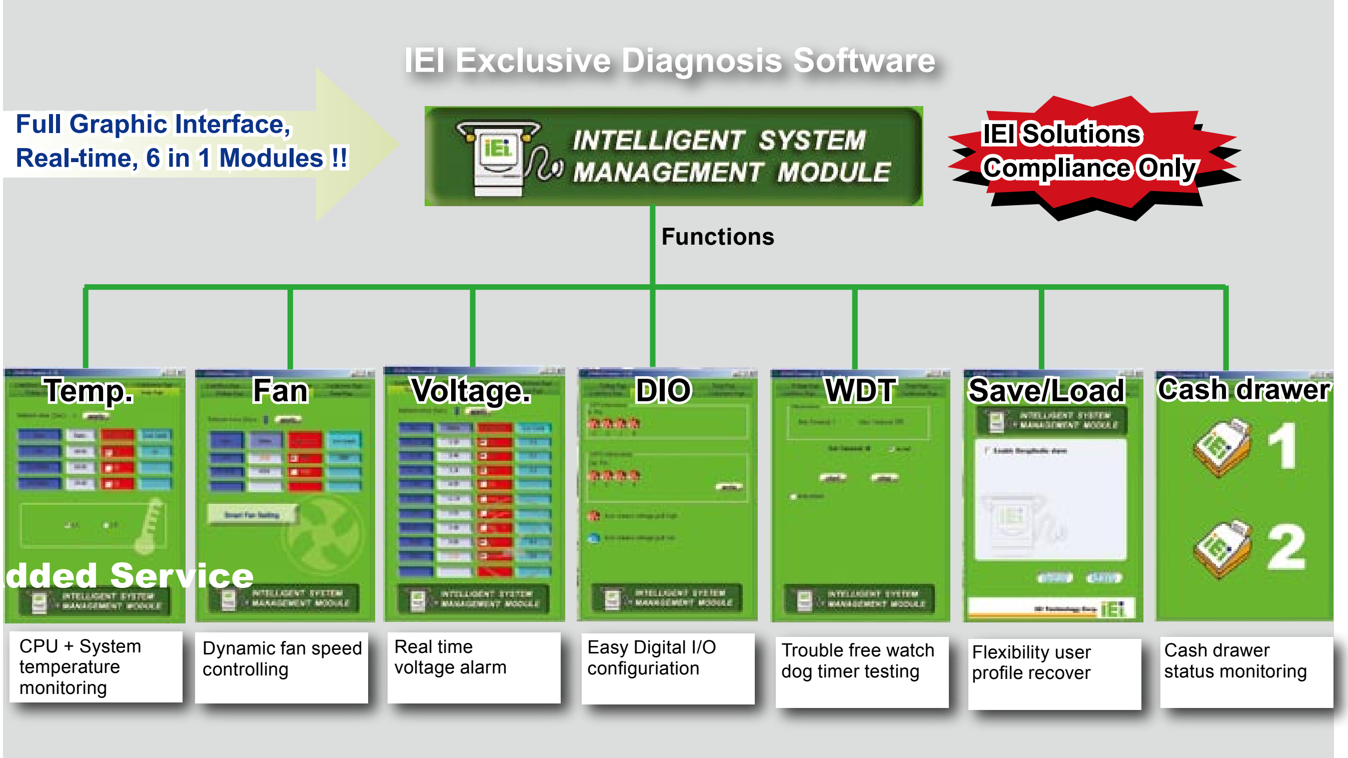
► Packing List

- 1 x DC jack cable
- 1 x USB cable
- 1 x screw kit

IEI Intelligent System Management Module (ISMM)

IEI iSMM is a system health supervision API which utilizes sensor chips on IEI motherboards to track system and CPU temperatures, voltages, cooling fan speed., WDT and Digital I/O set up status . By quickly capturing and reporting system health data, users can prevent disasters such as system instability or damage.

iSMM


Temp.
Fan
Voltage.
DIO
WDT
Save/Load
Cash drawer
1
2
dded Service
INTELLIGENT SYSTEM MANAGEMENT MODULE

IEI Exclusive Diagnosis Software

Full Graphic Interface, Real-time, 6 in 1 Modules !!

INTELLIGENT SYSTEM MANAGEMENT MODULE

IEI Solutions Compliance Only

Functions

CPU + System temperature monitoring

Dynamic fan speed controlling

Real time voltage alarm

Easy Digital I/O configuiration

Trouble free watch dog timer testing

Flexibility user profile recover

Cash drawer status monitoring

Features

- External and on-chip voltages data feedback
- CPU and system temperature data feedback
- Cooling fan speed data feedback
- Cooling fan speed controlled by PWM/On-Off/ Automatic Mode
- Warning signals by beeper and sound effect
- WDT Test
- Programmable Digital I/O
- System health configurations save and load

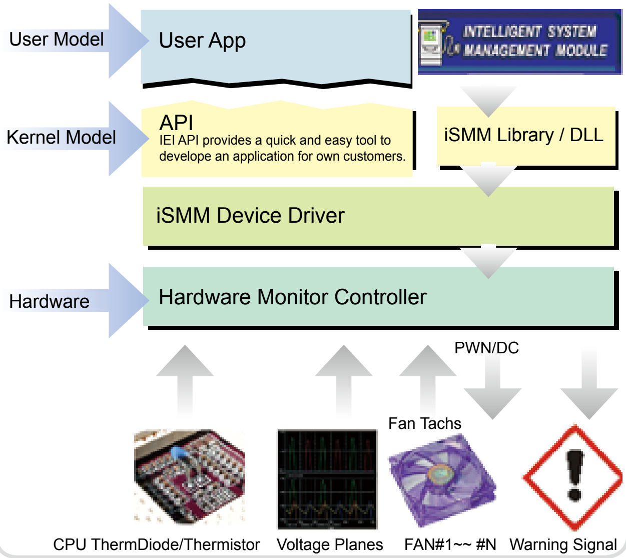
Advantages

Know that your system is running within safe limits !!
Prevent disasters such as sysem unstability or damage.

Public API Support

Hardware management has become so popular, particularly in self-service systems, that specialized APIs (application programming interfaces) have been created to ease the processes in all stages of hardware management generation. These APIs have also proved vital to system integrators, as they provide a way for programmers to access the hardware in an abstract way.

Architecture


User Model
User App
INTELLIGENT SYSTEM MANAGEMENT MODULE
Kernel Model
API
IEI API provides a quick and easy tool to develope an application for own customers.
iSMM Library / DLL
iSMM Device Driver
Hardware
Hardware Monitor Controller
PWN/DC
Fan Tachs
CPU ThermDiode/Thermistor
Voltage Planes
FAN#1~~ #N
Warning Signal

Embedded OS Support

IEI provides optional pre-installed Windows® XP Embedded, Windows® CE 5.0 or Windows® Embedded CE 6.0 turnkey solutions tailored for the AFOLUX series. These turnkey solutions have one CompactFlash® memory card Windows® pre-installed. A Windows® software license is included, and one CD that contains all related SDK (Software Development Kit) information and user manuals.

128 MB

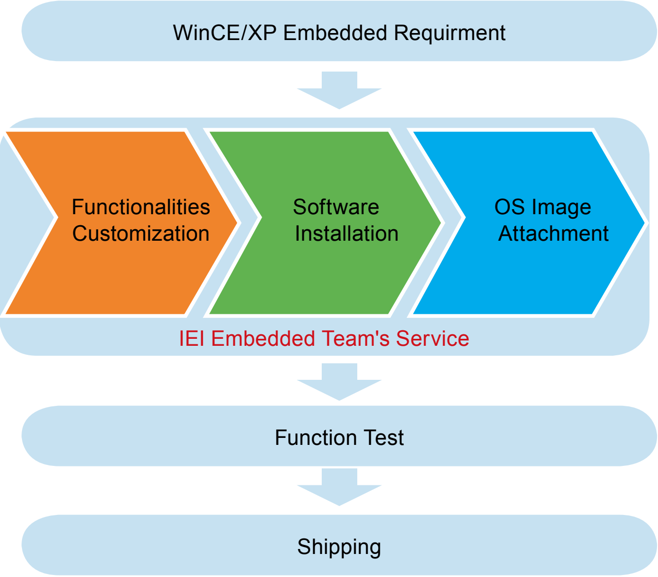
Include:
- -Windows® CE OS image with license
- -Thin Client turnkey solutions
- -SDK

1 GB

Include:
- -Windows® XPE OS image with license
- -Thin Client turnkey solutions

Windows XP Embedded

Windows CE 5.0 Windows Embedded CE 6.0


WinCE/XP Embedded Requirment

Functionalities Customization

Software Installation

OS Image Attachment

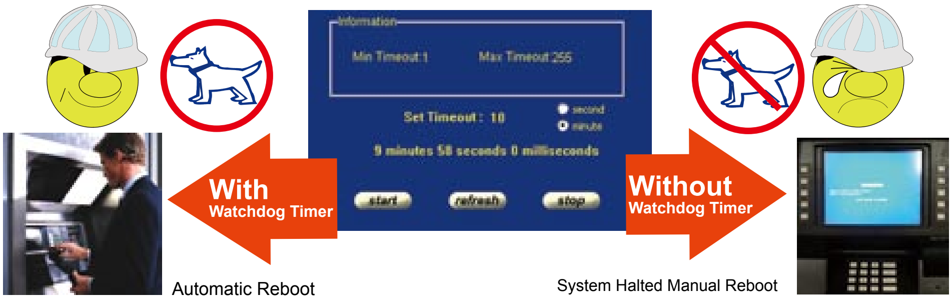
IEI Embedded Team's Service

Function Test

Shipping

Watch Dog Timer

The AFOLUX panel PC includes a watchdog timer. The watchdog timer allows the system to automatically recover from a system crash. When the CPU stops working correctly, the watchdog timer waits for a preset period of time, and then performs a hardware reset (cold boot) or a Non-Maskable Interrupt (NMI) to bring the system back to a known state.


Information

Min Timeout:1 Max Timeout:255

Set Timeout : 10 ○ second ● minute

9 minutes 58 seconds 0 milliseconds

Benefits
- Making your service systems more self-reliant
- Decreasing maintenance cost

ATM

KIOSK

In most cases there is no user around to reset the computer when things go wrong. That job is performed by the watchdog timer.

Complete Platforms

A Embedded Computing Series

AFOLUX embedded computing systems are designed to do some specific task. While low performance requirements only, allowing the system hardware to be simplified to reduce costs. IEI AFOLUX embedded computing systems will be the best solutions.

- **Extreme low power consumption**
  Low power enables higher clock frequency, higher reliability, better noise margins, and reduced capital and operational costs.
- **Compact size light weight for limited space applications**
- **Fanless System Design**
- **Embedded Windows CE/XPE Support**

AMD Geode LX-800 Computing Platform

Reliable Fanless Solution

AMD Geode LX platform is a fanless, low power consumption solution specifically fit for space-saving and harsh environment applications such as factory automation, POS and thin-client terminals.

Fanless Benefits

- Less down time
- Extended operational lives as they are not exposed to overheating problems caused by fan failures
- Reduce maintenance costs

Aluminum Die Casting Design
Good Heat Dissipation!

B Single Core Computing Series

AFOLUX fanless single core computing series are designed for embedded performance grade applications. Featuring an Intel 915GME/910GMLE provides total compatibility in a wide variety of high end lower power industrial control applications.

- **Embedded low power consumption**
- **Flexible high performance option**
  The high performance Intel® processor offers the best combination of high performance computing features with the lowest power dissipation. BGA/Socket CPU for various of applications.

Intel® 915GME Computing Platform

Fanless and High Computing

The high performance Intel® processor offers the best combination of high performance computing features with the lowest power dissipation.

The performance and features of the AFL-915 series make them suitable for a wide range of high end applications that demand speed and graphics capabilities, including kiosks, telecommunications, graphics intensive medical applications, gaming applications and others.

For performance-oriented users, socket type allows customers to easily upgrade processors from Pentium M 1.0GHz to 2.0GHz.

AFL Intel® 915GM family support high performance Intel®Celeron® M 1.0GHz/512KB L2 cache and Intel® Pentium® M 2.0GHz CPU.

High Performance AFOLUX Intel® 915 family B series

Intel® Pentium® M 2.0GHz(max.)
-Two DDR2 SO-DIMM 2.0 GB (max.)

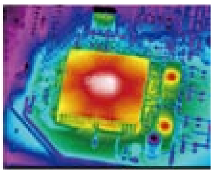
Slim, Fanless AFOLUX Intel® 915 family A series

Intell® CeleronI® M 1.0GHz with 512 KB L2 cache
- One DDR2 SO-DIMM 1.0 GB (max.)
- Two DDR2 SO-DIMM 2.0 GB (max.)
(Operating Temperature :0°C~ ~ 35°C)

Intel® 910GME Computing Platform

Embedded High Computing Platform

AFL Intel 910GMLE family is designed with slim size offers the best high performance computing features with the lowest power dissipation ideal for industrial automation applications.



With low power consumption benefit, BGA type enhances thermal performance and system stabilities significantly

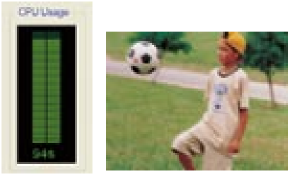
AFOLUX Panel PC is a multi-functional all-in-one system which delivers multiple platforms for versatile applications requirements:

VIA CX 700M Computing Platform

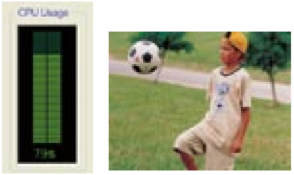
Flawless digital media playback with lower CPU usage

The AFOLUX CX series are embedded with VIA CX700M chipset which has unique VIA UniChrome™ Pro II graphic core inside. VIA UniChrome™ Pro II graphic core supports the most popular digital video and audio formats through hardware MPEG-2/MPEG-4 hardware decode acceleration, enabling faster multimedia file transmission and better image quality while the CPU is in less consumption.

94% CPU Usage
Without Hardware Decoder
-Lagged image with Higher CPU usage



79% CPU Usage WIN !
With Hardware Decoder
-Good image quality with Lower CPU usage



Go Back
Continue

Dual Core High Computing Series

AFOLUX dual core platform will provide the higher performance and let your device can do more at once without slowing down.

- **Superior Performance**
  - -Mobile Dual Core High Computing
  - -Desktop Dual Core High Computing
- **Dual-Core Processor**
  - Two physical cores in a single package where both cores share system loading
  - Each core has its own L1 cache
  - Both cores share the L2 cache to enhance processing speed
  - Each core has its own execution resources with truly parallel multi-tasking and threaded execution.
  - Increased throughput.

Intel® 965GME Computing Platform

Extremem Computing Performance

Powerful AFL-9652 series with dual-core processor especially ideal for those looking to boost their system's multitasking computing power.

Excellent Video Playback Capability

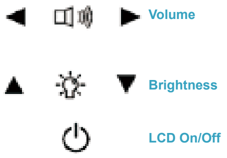
Unique video processing hardware and software technologies enables stunning video playback:

- MPEG-2 Hardware Acceleration
- WMV9 Hardware Acceleration
- Advanced Pixel Adaptive De-interlacing
- Sharpness Enhancement
- De-Noise Filter
- High Quality scaling
- Film mode detection and correction

OSD Adjustment

Extreme Wireless Technology

- Built-in Bluetooth module increase peripheral device connections
- Built-in 802.11 a/b/g/n WiFi module transmission speed can be up to 540Mbps in real throughput
- Optional GPRS/HSDPA for the best mobile network solution



For convenience, AFL-965 series especially designed with OSD keypad below the front panel allow fast volume and brightness adjustment.

Brightness

Intel® 945G Computing Platform

Dual Core KIOSK Ready System

Designed for style, performance, and state-to-art built in functions packaging

Superb Connectivity

Strong Multimedia

- Dual independent display for content extension
- Built-in 2.0 mega-pixel webcam with auto focus
- Built-in two 1.5W IP 64 water proof stereo speakers
- External audio (Line in, Line out , MIC in supported)

AMD® 690E Computing Platform

AFL-690 digital signage touch panel PC series with Radeon ™ X1250 3D Graphics Core through ATI Avivo™ technology to increase video quality Avivo's revolutionary technologies come together to enable superior quality and High-Definition (HD) visual experiences on the PC.

•Capturing
•Automatically adjust its brightness and contrast.
•Motion adaptive 3D comb filter, automatic color control, automatic gain control
•Hardware noise reduction and edge enhancement technologies for better video playback quality

Decode
•The GPU core supports hardware decoding of H.264, VC-1, WMV9, and MPEG-2 videos to lower CPU utilization

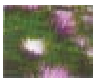
•Encode
•Support hardware encoding of H.264, VC-1, WMV9, and MPEG-2 videos to lower CPU utilization

•Process
•Supports vector adaptive de-interlacing and video scaling to reduce jaggies, and spatial/temporal dithering, enabling 10-bit color quality on 8-bit and 6-bit displays during process stage

ATI RADEON XPRESS 1250 ATI AVIVO

3D Comb Filter

The 3D Comb Filter is best used for still images, as it removes flickering and provides the most accurate onscreen image colors.



- Without 3D Comb Filter

- 3D Comb Filter

Noise Reduction

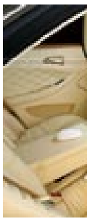
Digital Noise Reduction is essential in effecting a pure digital display. This technology implements an algorithm to remove clamping noise; the result is a grain-free, crystal-clear picture.

- Without Noise Reduction

- Noise Reduction

Multi-Device Applications Possibilities

AFOLUX all-in-one touch panel PC ranging from 5.6-inch mini-size to 19-inch large screen with multiple state-of-the-art functions and expansion I/Os , fulfilling the specific applications to meet the demanding requirements of today's business and industrial applications.



Small Size 5.6”~7” Compact All-in-One Touch Panel PC

Fanless small size AFOLUX Panel PC is specially focused on interactive control device. Particularly through x86 PC base architecture provides quick developing application software, time to market, and highly compatible to all kind of OS benefits. User can easily choose.

Applications:

- ►Door Access Control System
- ►Car PC
- ►Home Automation
- ►Building Control Terminal

5.6” QVGA

- QVGA Touch Panel PC
- Fanless Design

5.7” VGA

- VGA higher resolution offers more detail
- LED-backlight delivers better image and power efficiency \Fanless Design

7” WVGA

- 16:10 wide screen for better viewing

Medium Size 8.4”~12.1” Medium All-in-One Touch Panel PC

Middle size AFL Panel PC is specially focused on human and graphic interface control device. From embedded processor to dual core platform, IEI provides various performance level for different applications and solutions.

Applications:

- ►HMI (Human Machine Interface)
- ►MES
- ►POS System
- ►Shop-flow
- ►Factory Automation
- ►Parking System
- ►ATM Machine

8.4” SVGA

- 450 nits high brightness
- Fanless Design

10.4” SVGA

- Fanless Design

12.1” XGA

- XGA (1024 x 768) High Resolution
- Fanless Design
- 12.1” Fanless POS System Available

Assembly Line

Parking System

POS System

Digital Signage

Vehicle Information System

Performance Level	Platform	Key Attributes	
			5.6"
Embedded Computing	AMD Geode™ LX 800	The fanless Panel PC supports the low powerAMD Geode™ LX 800 processor. It is a powerful and compact panel PC ideally suited for operator interface applications.	AFL-056A-LX
	VIA CX700M	Designed around VIA CX700M chipset, the AFOLUX panel PC delivers high-end graphics capabilities as well as a low power consumption.	
Single CoreComputing	Intel® 915GME / 910GMLE	Delivering outstanding computing performance and low-power enhancements.	
Dual CoreComputing	Intel® 945G	Outstanding computing performance and desktop dual corer enhancements. The KIOSK ready Panel PC provides quick solution in the market.	
	Intel® GME965	High performance mobile dual core with 800MHz FSB processor support.	
	AMD 690E	AMD Socket AM2 dual-core processors in AMD 690E platform deliver outstanding multi-tasking and graphic performance .	

Car PC

Home Automation

Productions Line

Conference Room

Lift Truck Scale Control System

Large Size 15"~19" Medium All-in-One Touch Panel PC

Big size AFL Panel PC is specially focused on information display and broadcast devices. With many value added accessories, IEI big size AFL panel PC could be easily applied to dedicated applications such as POS, KIOSK, and digital signage solutions.

Applications:

►Digital Signage
►Surveillance
►KIOSK
►Gaming
►Vending Machine Control System
►Bus Stop Information Center

19" SXGA

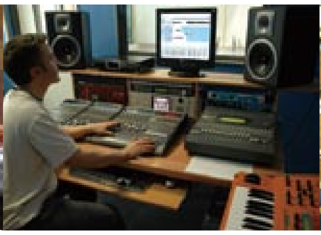
17" SXGA

- Super expansion capability KIOSK System Available

15" XGA

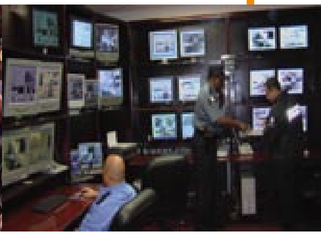
- Intel, AMD and VIA complete platform support
- Fanless POS System Available
- Super expansion capability KIOSK System Available

Interview Terminal


Music Production Studio

KIOSK

Gaming Machine


Digital Surveillance

Small Size		Middle Size			Large Size		
5.7"	7"	8.4"	10.4"	12.1"	15"	17"	19"
AFL-057A-LX	AFL-07A-LX	AFL-08AH-LX	AFL-10A-LX	AFL-12A-LX	AFL-15A-LXPOS		
	AFL-07A-CX2	AFL-08AH-CX2	AFL-10A-CX2 AFL-10A-CX	AFL-12B-CX2 AFL-12B-CX	AFL-15A-CX	AFL-17A-CX	AFL-19A-CX
			AFL-10A-9103	AFL-12 B-9103	AFL-15A-915 AFL-15B-915	AFL-17A-915 AFL-17B-915	AFL-19A-915 AFL-19B-915
					AFL-315A-945	AFL-317A-945	
					AFL-15C-9652	AFL-17C-9652	AFL-19C-9652
					AFL-15B-690	AFL-17B-69 0	AFL-19B-690

AFL-056A-LX

5.6" QVGA Mini Fanless Touch Panel PC

AMD Geode LX-800 500 MHz Processor

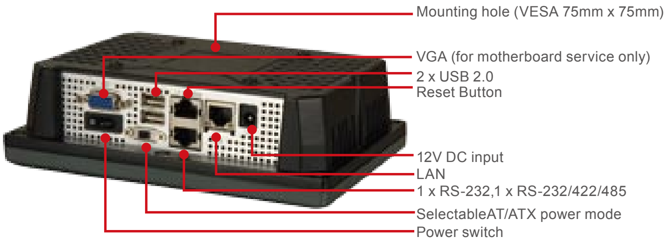
Fanless

▶ Features

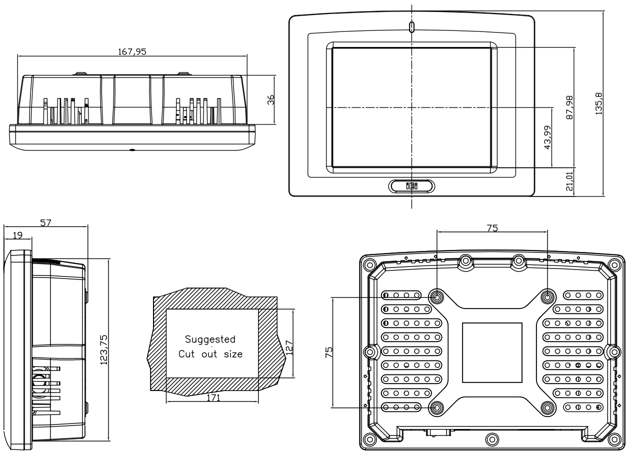
- 5.6" QVGA TFT LCD with resistive touch screen
- Compact design with plastic housing
- Fanless cooling system
- System memory up to 1 GB SDRAM
- Built-in 802.11b/g Wireless LAN
- Built-in Bluetooth module
- Built-in two 1.5 W speakers
- One compact flash slot
- IP 64 compliant front panel

The AFL-056A-LX QVGA mini fanless touch panel PC is a highly-reliable fanless small form factor panel PC with a low power CPU. The casing is made of aluminum die casting and the system comes with versatile built-in functions for small screen requirements such as Human Machine Interfaces (HMI) and building automation.

▶ Fully Integrated I/O


Mounting hole (VESA 75mm x 75mm)
VGA (for motherboard service only)
2 x USB 2.0
Reset Button
12V DC input
LAN
1 x RS-232,1 x RS-232/422/485
SelectableAT/ATX power mode
Power switch

▶ Dimensions (Unit:mm)


167,95
36
43,99
87,98
135,8
21,01
19
57
123,75
Suggested Cut out size
127
171
75
75

▶ Specifications

Model	AFL-056A-LX
LCD Size	5.6"
Max Resolution	320 * 234
Brightness (cd/m2)	350
Contrast Ratio	400:1
LCD Color	262K
Pixel Pitch (mm)	0.118(H) x 0.362(V)
Viewing Angle (H-V)	100/60
Backlight MTBF	30000 hrs
SBC Model	AFLMB-LX2-800
CPU	AMD Geode™ LX 800 (500MHz)
Chipset	AMD Geode™ LX 800 + AMD Geode™ CS5536
RAM	Supports one 1GB (maximum) 333MHz or 400MHz DDR SO-DIMM
I/O Ports and Switches	1 x RS-232 COM port (RJ-45) 1 x RS-232/422/485 COM port (RJ-45) 1 x RJ-45 for 10/100Mbps 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x AT/ATX Switch
SSD	CF Type II
Watchdog Timer	Software programmable supports 1~255 sec. System reset
Audio	AMP 1.5W + 1.5W
Expansion	1 x Wireless LAN Module (USB Interface) 1 x bluetooth module (USB Interface)

HDD Drive Bay	N/A
Optional HSDPA Module (support GSM 850,EGSM 900,DCS 1800 & PCS 1900)	N/A
Construction Material	ABS + PC Plastic front frame Aluminum die casting body
LED Function	1 x Power ON/OFF LED on front panel
Mounting	Panel, Wall, Stand and Arm (VESA 75mm x 75mm)
Front Panel Color	Gray 7539U
Dimensions (WxHxD) (mm)	180 x 135 x 55
Operation Temperature (°C)	0°C~50°C
Storage Temperature (°C)	-20°C~60°C
Net Weight	0.8 Kg
IP Level (front panel)	IP 64
EMC	CE, FCC, CCC
Safety	UL, CB
Touch Screen	Resistive Type 4-Wire (touch controller IC is on board)
Power Adapter	P/N: 63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC
Power Requirement	12VDC
Power Consumption	17W

▶ Ordering Information

Part Number	Description
AFL-056A-LX/WT-R/256MB	5.6", 350cd/m² QVGA fanless panel PC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11 b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-056A-LX/WT-R/512MB	5.6", 350cd/m² QVGA fanless panel PC with AMD Geode™ LX 800 CPU, 512MB DDR RAM, 802.11 b/g wireless module, Bluetooth module and touch screen, RoHS

▶ ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-056A-LX						V		

▶ Options

Panel Mounting Kit		AFLPK-08
Wall Mounting Kit		AFLWK-12
Rack Mounting Kit		AFLRK-056
ARM		ARM-11-RS/ARM-31-RS
STAND		STAND-A08 STAND-100-RS/STAND-150-RS
OS	**Win CE 5.0**	AFLCF-056-LX-CE
	Win CE 6.0	AFLCF-056-LX-CE060
DC to DC converter module		IDD-930160-KIT
Hybrid Card Reader		AFLP-08AMSI-U
Magnetic Stripe Reader		AFLP-08AMSR-U
DC 12V Input UPS		AUPS-A10-R10
DV 9-36V Input UPS		AUPS-A20-R10

▶ Packing List

Item	P/N	Q'ty	Specifications
Screws	44013-030041-RS	4	M3;ø5mm
Power Adapter	63000-FSP0361AD101C-RS	1	90~264V;12V;36W
Power Cable	32000-000002-RS	1	1750MM,European Standard
User's Manual CD ROM	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

▶ Fanless Design

AFOLUX PPC back cover is designed with cast aluminum chassis which is ideal for demanding environments, The strong, rigid casings are corrosion-resistant and have good heat dissipation properties. strength and rigidity along with good corrosion resistance and heat dissipation.

Benefits
- Less down time
- Extended operational lives as they are not exposed to overheating problems caused by fan failures
- Reduce maintenance costs

Aluminum Die Casting Design
Good Heat Dissipation!

▶ QVGA and VGA Supported

5.6" QVGA Mini Panel PC

5.6" QVGA (320 x 234) AFOLUX touch PPC offers larger image size ideal for replacing the HMI buttons for easy controlling.

Better Control Unit!

AFL-057A-LX

5.7” VGA Mini Fanless Touch Panel PC

AMD Geode LX-800 500 MHz Processor

AMD Geode AMD Geode LX800

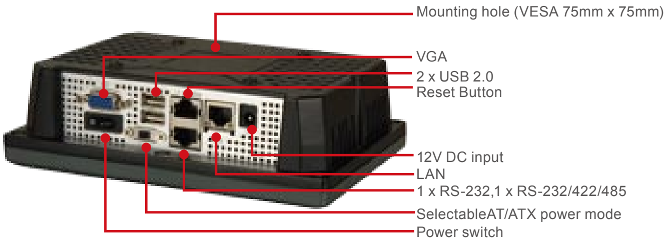
Fanless

▶ Features

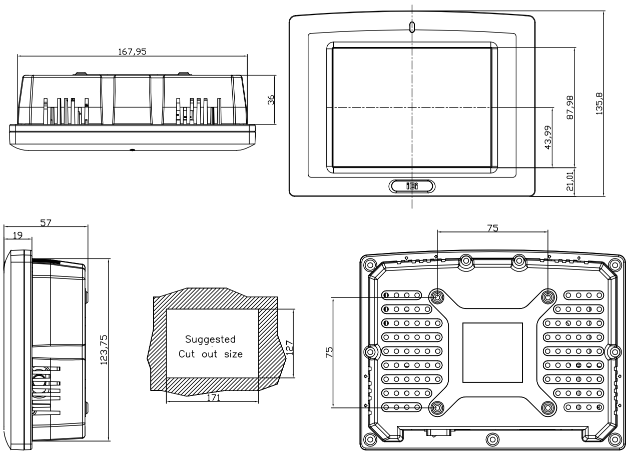
- 5.7” VGA TFT LED backlight LCD with resistive touch screen
- Compact design with plastic housing
- Fanless cooling system
- System memory up to 1 GB SDRAM
- Built-in 802.11b/g Wireless LAN
- Built-in Bluetooth module
- Built-in two 1.5 W speakers
- One compact flash slot
- IP 64 compliant front panel

The AFL-057A-LX QVGA mini fanless touch panel PC is a cost effective choice for a limited budget. Optional Windows® CE/XPE OS lets the AFL-057A-LX ideal for HMI solution for system integration.

▶ Fully Integrated I/O


Mounting hole (VESA 75mm x 75mm)
VGA
2 x USB 2.0
Reset Button
12V DC input
LAN
1 x RS-232,1 x RS-232/422/485
SelectableAT/ATX power mode
Power switch

▶ Dimensions (Unit:mm)



▶ Specifications

Model	**AFL-057A-LX**
LCD Size	5.7"
Max Resolution	640 * 480
Brightness (cd/m2)	400
Contrast Ratio	300:1
LCD Color	262K
Pixel Pitch (mm)	0.06(H) x 0.18(V)
Viewing Angle (H-V)	140/100
Backlight MTBF	50000 hrs
SBC Model	AFLMB-LX2-800
CPU	AMD Geode™ LX 800 (500MHz)
Chipset	AMD Geode™ LX 800 + AMD Geode™ CS5536
RAM	Supports one 1GB (maximum) 333MHz or 400MHz DDR SO-DIMM
I/O Ports and Switches	1 x RS-232 COM port (RJ-45) 1 x RS-232/422/485 COM port (RJ-45) 1 x RJ-45 for 10/100Mbps 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x AT/ATX Switch
SSD	CF Type II
Watchdog Timer	Software programmable supports 1~255 sec. System reset
Audio	AMP 1.5W + 1.5W
Expansion	1 x Wireless LAN Module (USB Interface) 1 x bluetooth module ((USB Interface))

HDD Drive Bay	N/A
Optional HSDPA Module (support GSM 850,EGSM 900,DCS 1800 & PCS 1900)	N/A
Construction Material	ABS + PC Plastic front frame Aluminum die casting body
LED Function	1 x Power ON/OFF LED on front panel
Mounting	Panel, Wall, Stand and Arm (VESA 75mm x 75mm)
Front Panel Color	Gray 7539U
Dimensions (WxHxD) (mm)	180 x 135 x 55
Operation Temperature (°C)	0°C~50°C
Storage Temperature (°C)	-20°C~60°C
Net Weight	0.8 Kg
IP Level (front panel)	IP 64
EMC	CE, FCC, CCC
Safety	UL, CB
Touch Screen	Resistive Type 4-Wire (touch controller IC is on board)
Power Adapter	P/N: 63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC
Power Requirement	12VDC
Power Consumption	15W

▶ Ordering Information

Part Number	Description
AFL-057A-LX/WT-R/256MB	5.7", 400cd/m² VGA fanless panel PC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11 b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-057A-LX/WT-R/512MB	5.7", 400cd/m² VGA fanless panel PC with AMD Geode™ LX 800 CPU, 512MB DDR RAM, 802.11 b/g wireless module, Bluetooth module and touch screen, RoHS

▶ ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-057A-LX						V		

▶ Options

Panel Mounting Kit		AFLPK-08
Wall Mounting Kit		AFLWK-12
Rack Mounting Kit		AFLRK-057
ARM		ARM-11-RS/ARM-31-RS
STAND		STAND-A08 STAND-100-RS/STAND-150-RS
OS	Win CE 5.0	AFLCF-057-LX-CE
	Win CE 6.0	AFLCF-057-LX-CE060
	Win XPE	AFLCF-057-LX-XPE
DC to DC converter module		IDD-930160-KIT
Hybrid Card Reader		AFLP-08AMSI-U
Magnetic Stripe Reader		AFLP-08AMSR-U
DC 12V Input UPS		AUPS-A10-R10
DV 9-36V Input UPS		AUPS-A20-R10

▶ Packing List

Item	P/N	Q'ty	Specifications
Screws	44013-030041-RS	4	M3;ø5mm
Power Adapter	63000-FSP0361AD101C-RS	1	90~264V;12V;36W
Power Cable	32000-000002-RS	1	1750MM,European Standard
User's Manual CD ROM	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

▶ Enhanced Features

5.7" VGA Mini Panel PC

5.7" VGA (640 x 480) AFOLUX touch PPC with higher resolution offers more detail.

Better Graphs Legibility!

▶ LED-backlight Panel PC delivers better image

LED Backlight

AFL-057A-LX is the first panel PC of its compact size to incorporate an LED backlight - being better than previous CCFL illumination for the viewing and editing of pictures.

With Wider Gamut

AFL-057A-LX

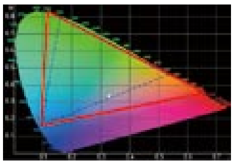
5.7" VGA Mini Fanless Touch Panel PC

Vivid Image!

Enhancement of picture image quality on LCD screen

- Wider color gamut
- More even screen illumination
- Longer display life
- Low temperature operation and greater power efficiency

Color Gamut Comparison

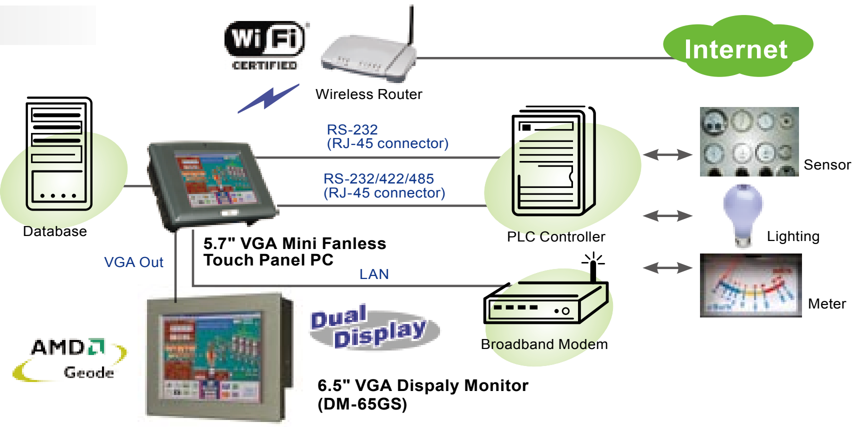


──	LED
- - - - -	Normal CCFL

Thus LED backlight for LCD enables seeing the color on LCD screen as we see the colors in nature.

▶ Dual Display

5.7" VGA AFL PPC integrated with VGA out port allows dual mirror display applications. (AFL-056A-LX VGA out port for motherboard service only)


Wi Fi CERTIFIED
Wireless Router
Internet
Database
RS-232
(RJ-45 connector)
RS-232/422/485
(RJ-45 connector)
PLC Controller
Sensor
Lighting
Meter
VGA Out
5.7" VGA Mini Fanless Touch Panel PC
LAN
Broadband Modem
Dual Display
AMD Geode
6.5" VGA Dispaly Monitor
(DM-65GS)

AFL-07A-LX

7” Widescreen WVGA Touch Panel PC

AMD Geode LX-800 500 MHz Processor

AFL-07A-CX2

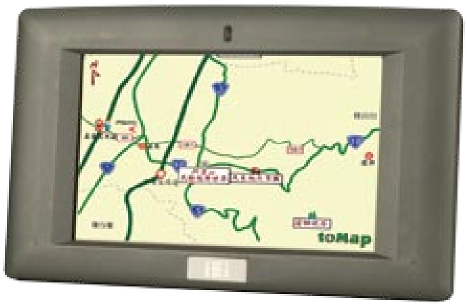
7” Widescreen WVGA Touch Panel PC

VIA Eden™ 1GHz ULV Processor

AFL-07A-ATOM

7” Widescreen WVGA Touch Panel PC

Intel® Atom™ N270 1.6G Processor



The compact fanless AFL-07A-LX model with widescreen high brightness panel is ideal for limited space and better image requirements such as car PCs.

Fanless

▶ Features

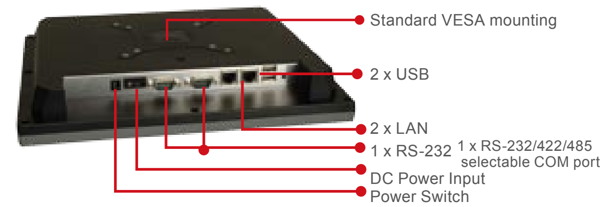
- 7” widescreen WVGA TFT LCD with resistive touch screen
- Compact design with plastic housing
- Fanless cooling system
- System memory up to 1 GB SDRAM
- Built-in 802.11b/g Wireless LAN
- Built-in Bluetooth module
- Built-in two 1.5 W speakers
- One compact flash slot
- IP 64 compliant front panel

▶ Specifications

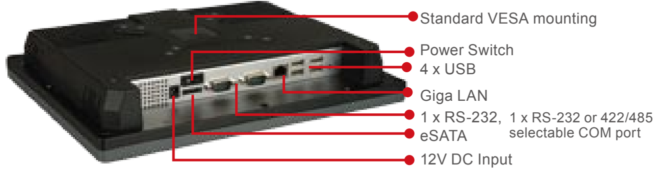
Model	AFL-07A-LX-R11 / AFL-07A-LX24V	AFL-07A-CX2	AFL-07A-ATOM
LCD Size	7"	7"	7"
Max Resolution	800 * 480	800 * 480	800 * 480
Brightness (cd/m^2)	350	350	350
Contrast Ratio	400:1	400:1	400:1
LCD Color	262K	262K	262K
Pixel Pitch (mm)	0.1905(H) x 0.1905(V)	0.1905(H) x 0.1905(V)	0.1905(H) x 0.1905(V)
Viewing Angle (H-V)	140/110	140/110	140/110
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-LX800	AFLMB-CX2	AFLMB-ATOM-R10
CPU	AMD Geode™ LX 800 (500MHz)	VIA EDEN 1GHz ULV	N270 (Atom 1.6G)
Chipset	AMD Geode™ LX 800 + AMD Geode™ CS5536	CX700M	Intel® 945GSE / ICH7M
RAM	Supports one 1GB (maximum) 333MHz or 400MHz DDR SO-DIMM	Support one 200-pin 1GB (maximum) 400MHz or 533MHz DDR II SO-DIMM	Supports one 2GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM
I/O Ports and Switches	1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 1 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Port	1 x RS-232 2 x USB 2.0 1 x RS-232/422/485 1 x Power Switch 1 x Reset Button 2 x LAN Ports 1 x Audio Jack
SSD	CF Type II		
Watchdog Timer	Software programmable supports 1~255 sec. System reset		
Audio	AMP 1.5W + 1.5W		
Expansion	1 x Mini PCI (Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)		1 x Mini PCIe (Wireless 802.11 b/g LAN Module) , 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)
HDD Drive Bay	N/A	N/A	N/A
Optional HSDPA Module (support GSM 850,EGSM 900,DCS 1800 & PCS 1900)	N/A	N/A	No
Construction Material	ABS + PC Plastic front frame		
LED Function			1 x Power ON/OFF LED on front panel
Mounting	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm / 100mm x 100mm
Front Panel Color	Gray 7539U	Gray 7539U	Gray 7539U
Dimensions (WxHxD) (mm)	226 x 140 x 41	226 x 140 x 41	226 x 140 x 40.18
Operation Temperature (°C)	0°C~50°C	0~45℃	-10°C~50°C with CF Card
Storage Temperature (°C)	-20°C~60°C	-20~60℃	-20°C~60°C
Net Weight	0.6 Kg	0.6 kg	0.6 Kg
IP Level (front panel)	IP 64	IP 64	IP64
EMC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CB, CCC
Safety	UL, CB	UL, CB	
Touch Screen	Resistive Type 4-Wire (touch controller IC is on board)		
Power Adapter	P/N: 63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	P/N:63000-FSP0361AD101C-RS Power:36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC
Power Requirement	12VDC or 18~30VDC	12VDC	12VDC
Power Consumption	20W	28W	23W

▶ Fully Integrated I/O

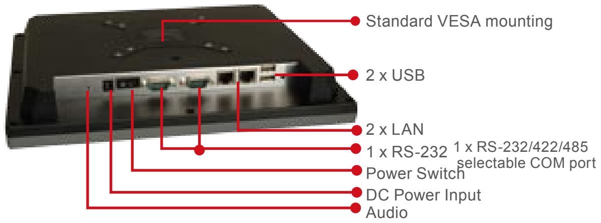
• AFL-07A-LX


Standard VESA mounting
2 x USB
2 x LAN
1 x RS-232
1 x RS-232/422/485 selectable COM port
DC Power Input
Power Switch

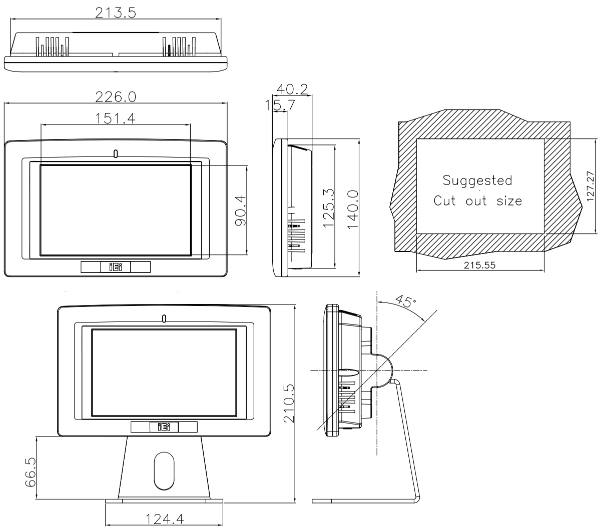
• AFL-07A-CX2


Standard VESA mounting
Power Switch
4 x USB
Giga LAN
1 x RS-232,
1 x RS-232 or 422/485 selectable COM port
eSATA
12V DC Input

• AFL-07A-ATOM


Standard VESA mounting
2 x USB
2 x LAN
1 x RS-232
1 x RS-232/422/485 selectable COM port
Power Switch
DC Power Input
Audio

▶ Dimensions (Unit:mm)


213.5
226.0
151.4
40.2
15.7
90.4
125.3
140.0
Suggested Cut out size
127.27
215.55
45°
210.5
66.5
124.4

▶ Ordering Information

Part Number	Description
AFL-07A-LX/WT-R/256MB-R11	7", 350cd/m² WVGA fanless panel PC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-07A-LX/WT-R/512MB-R11	7", 350cd/m² WVGA fanless panel PC with AMD Geode™ LX 800 CPU, 512MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-07A-CX2-E10G/WT-R/512MB	7" 350cd/m² WVGA fanless panel PC with VIA Eden 1GHz ULV CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-07A-LX24V/WT-R/256MB	7" 350cd/m² WVGA fanless panel PC with AMD Geode™ LX 800 CPU, 256 MB DDR RAM, 18~30VDC Power Input, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-07A-LX24V/WT-R/512MB	7" 350cd/m² WVGA fanless panel PC with AMD Geode™ LX 800 CPU, 512 MB DDR RAM, 18~30VDC Power Input, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-07A-ATOM-N270/WT-R/1GB-R10	7", 350cd/m² WVGA fanless panel PC with Intel® Atom™ N270 1.6GHz,802.11b/g wireless module, bluetooth module, touch screen ,1GB DDR2 533,RoHS

▶ ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-07A-LX	V			V		V	V	
AFL-07A-CX2					V	V		
AFL-07A-ATOM								

▶ Options

		AFL-07A-ATOM	AFL-07A-LX	AFL-07A-CX2
Panel Mounting Kit		AFLPK-12	AFLPK-08	
Wall Mounting Kit		AFLWK-12	AFLWK-12	
Rack Mounting Kit		AFLRK-07	AFLRK-07	
ARM		ARM-11-RS/ARM-31-RS		
STAND		STAND-A12 STAND-100-RS / STAND-150-RS	STAND-A08 STAND-100-RS/STAND-150-RS	
OS	**Win CE 5.0**	AFLCF-07-ATOM-CE	AFLCF-07-LX-CE-R11	AFLCF-07-CX2-CE
	Win CE 6.0	AFLCF-07-ATOM-CE060	AFLCF-07-LX-CE-CE060	AFLCF-07-CX2-CE060
	Win XPE	AFLCF-07-ATOM-XPE	AFLCF-07-LX-XPE-R11	AFLCF-07-CX2-XPE
DC to DC converter module		IDD-930160-KIT		
Hybrid Card Reader		AFLP-08AMSI-U		
Magnetic Stripe Reader		AFLP-08AMSR-U		
DC 12V Input UPS		AUPS-A10-R10		
DV 9-36V Input UPS		AUPS-A20-R10		

▶ Packing List

Item	P/N	Q'ty	Specifications
Screws	44013-030041-RS	4	M3;ø5mm
Power Adapter	63000-FSP0361AD101C-RS	1	90~264V;12V;36W
Power Cable	32000-000002-RS	1	1750MM,European Standard
User's Manual CD ROM	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

Note: AFL-07A-LX24V model without power adapter

AFL-08AH-LX

8.4”High Brightness Touch Panel PC

AMD Geode LX-800 500 MHz Processor

AFL-08AH-CX2

8.4”High Brightness Touch Panel PC

VIA Eden™ 1GHz ULV Processor

AFL-08AH-ATOM

8.4” Fanless SVGA High Brightness Touch Panel PC

Intel® Atom™ N270 1.6G Processor

Fanless

▶ Features

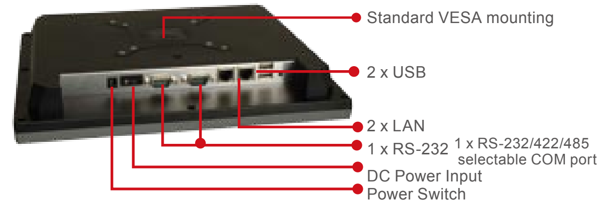
- 8.4” TFT LCD with resistive touch screen
- Fanless cooling system
- System memory up to 1 GB SDRAM
- Built-in 802.11b/g Wireless LAN
- Built-in Bluetooth module
- Built-in two 1.5 W speakers
- One compact flash slot
- IP 64 compliant front panel

▶ Specifications

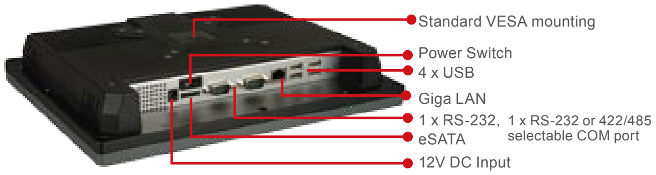
Model	AFL-08AH-LX-R11 / AFL-08AH-LX24V	AFL-08AH-CX2	AFL-08AH-ATOM
LCD Size	8.4"	8.4"	8.4"
Max Resolution	800 * 600	800 * 600	800 * 600
Brightness (cd/m^2)	450	450	450
Contrast Ratio	500:1	500:1	500:1
LCD Color	262K	262K	262K
Pixel Pitch (mm)	0.213(H) x 0.213(V)	0.213(H) x 0.213(V)	0.213(H) x 0.213(V)
Viewing Angle (H-V)	120/100	120/100	120/100
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-LX800	AFLMB-CX2	AFLMB-ATOM-R10
CPU	AMD Geode™ LX 800 (500MHz)	VIA EDEN 1GHz ULV	N270 (Atom 1.6G)
Chipset	AMD Geode™ LX 800 + AMD Geode™ CS5536	CX700M	Intel® 945GSE / ICH7M
RAM	Supports one 1GB (maximum) 333MHz or 400MHz SO-DIMM	Support one 200-pin 1GB (maximum) 400MHz or 533MHz DDR II SO-DIMM	Supports one 2GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM
I/O Ports and Switches	1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 1 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Port	1 x RS-232 2 x USB 2.0 1 x RS-232/422/485 1 x Power Switch 1 x Reset Button 2 x LAN Ports 1 x Audio Jack
SSD	CF Type II		
Watchdog Timer	Software programmable supports 1~255 sec. System reset		
Audio	AMP 1.5W + 1.5W		
Expansion	1 x Mini PCI (Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)		1 x Mini PCIe (Wireless 802.11 b/g LAN Module) , 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)
HDD Drive Bay	N/A	N/A	N/A
Optional HSDPA Module (support GSM 850,EGSM 900,DCS 1800 & PCS 1900)	No	No	No
Construction Material	ABS + PC Plastic front frame		
LED Function	1 x Power ON/OFF LED on front panel		
Mounting	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm / 100mm x 100mm
Front Panel Color	Gray 7539U	Gray 7539U	Gray 7539U
Dimensions (WxHxD) (mm)	234 x 184 x 42	234 x 184 x 42	233.86 x 183.86 x 41.09
Operation Temperature (°C)	0°C~50°C	0~45°C	-10°C~50°C with CF Card
Storage Temperature (°C)	-20°C~60°C	-20~60°C	-20°C~60°C
Net Weight	0.8 Kg	0.8 kg	0.8 Kg
IP Level (front panel)	IP 64	IP 64	IP64
EMC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC
Safety	UL, CB	UL, CB	
Touch Screen	Resistive Type 4-Wire (touch controller IC is on board)		
Power Adapter	P/N:63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	P/N:63000-FSP0361AD101C-RS Power:36W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC
Power Requirement	12VDC or 18~30VDC	12VDC	12VDC
Power Consumption	20W	29W	25W

▶ Fully Integrated I/O

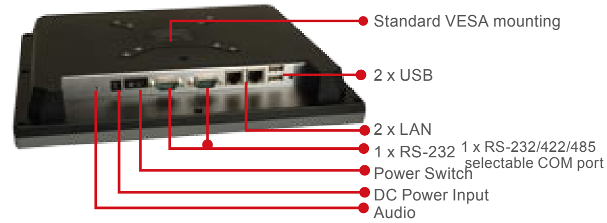
• AFL-08AH-LX


Standard VESA mounting
2 x USB
2 x LAN
1 x RS-232
1 x RS-232/422/485 selectable COM port
DC Power Input
Power Switch

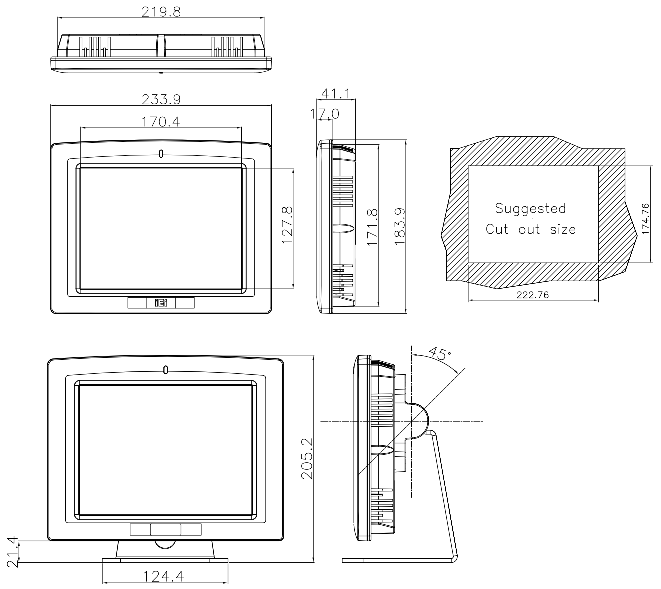
• AFL-08AH-CX2


Standard VESA mounting
Power Switch
4 x USB
Giga LAN
1 x RS-232,
1 x RS-232 or 422/485 selectable COM port
eSATA
12V DC Input

• AFL-08AH-ATOM


Standard VESA mounting
2 x USB
2 x LAN
1 x RS-232
1 x RS-232/422/485 selectable COM port
Power Switch
DC Power Input
Audio

▶ Dimensions (Unit:mm)


219.8
233.9
170.4
41.1
17.0
127.8
171.8
183.9
Suggested Cut out size
174.76
222.76
45°
205.2
21.4
124.4

▶ Ordering Information

Part Number	Description
AFL-08AH-LX/WT-R/256MB-R11	8.4", 450cd/m² SVGA fanless panel PC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-08AH-LX/WT-R/512MB-R11	8.4", 450cd/m² SVGA fanless panel PC with AMD Geode™ LX 800 CPU, 512MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-08AH-CX2-E10G/WT-R/512MB	8.4" 450cd/m² SVGA fanless panel PC with VIA Eden 1GHz ULV CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-08AH-LX24V/WT-R/256MB	8.4", 450cd/m² SVGA fanless panel PC with AMD Geode™ LX 800 CPU, 18~30VDC Input, 256MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-08AH-LX24V/WT-R/512MB	8.4", 450cd/m² SVGA fanless panel PC with AMD Geode™ LX 800 CPU, 18~30VDC Input, 512MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-08AH-ATOM-N270/WT-R/1GB-R10	8.4" 450cd/m² SVGA fanless panel PC with Intel® Atom™ N270 1.6GHz,802.11b/g wireless module,bluetooth module, touch screen ,1GB DDR2 533,RoHS

▶ ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-08AH-LX	V			V		V	V	
AFL-08AH-CX2					V	V		
AFL-08AH-ATOM								

▶ Options

		AFL-08AH-LX	AFL-08AH-CX2	AFL-08AH-ATOM
Panel Mounting Kit		AFLPK-08		AFLPK-12
Wall Mounting Kit		AFLWK-12		
Rack Mounting Kit		AFLRK-08		
ARM		ARM-11-RS / ARM-31-RS		
STAND		STAND-A08 STAND-100-RS / STAND-150-RS		STAND-A12 STAND-100-RS / STAND-150-RS
OS	**Win CE 5.0**	AFLCF-08-LX-CE-R11	AFLCF-08-CX2-CE	AFLCF-08-ATOM-CE
	Win CE 6.0	AFLCF-08-LX-CE-CE060	AFLCF08-CX2-CE060	AFLCF-08-ATOM-CE060
	Win XPE	AFLCF-08-LX-XPE-R11	AFLCF-08-CX2-XPE	AFLCF-08-ATOM-XPE
DC to DC converter module		IDD-930160-KIT		IDD-930160-KIT
Hybrid Card Reader		AFLP-08AMSI-U		AFLP-08AMSI-U
Magnetic Stripe Reader		AFLP-08AMSR-U		AFLP-08AMSR-U
DC 12V Input UPS		AUPS-A10-R10		
DV 9-36V Input UPS		AUPS-A20-R10		

▶ Packing List

Item	P/N	Q'ty	Specifications
Screws	44013-030041-RS	4	M3;ø5mm
Power Adapter	63000-FSP0361AD101C-RS	1	90~264V;12V;36W
Power Cable	32000-000002-RS	1	1750MM,European Standard
User's Manual CD ROM	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

AFL-10A-CX	**10.4" SVGA Touch Panel PC** **VIA EDEN™ 500MHz / C7 1.5GHz Processor**
AFL-10A-LX	**10.4" SVGA Touch Panel PC** **AMD Geode LX-800 500 MHz Processor**
AFL-10A-CX2	**10.4" SVGA Touch Panel PC** **VIA Eden™ 1GHz ULV Processor**
AFL-10A-9103	**10.4" SVGA Touch Panel PC** **Intel® Celeron® M 1GHz 512KB Processor**
AFL-10A-ATOM	**10.4" Fanless SVGA Touch Panel PC** **Intel® Atom™ N270 1.6G Processor**

Fanless

▶ Features

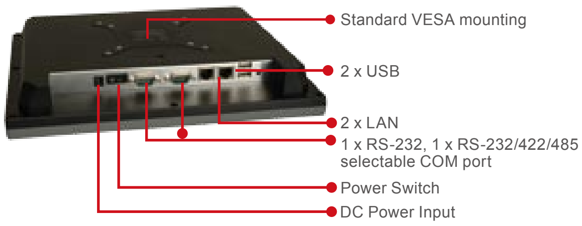
- 10.4" TFT LCD with resistive touch screen
- System memory up to 1 GB SDRAM
- Built-in 802.11b/g Wireless LAN
- Built-in Bluetooth module
- Built-in two 1.5 W speakers
- Built-in HSDPA module for mobile connection (Optional)
- One compact flash slot
- IP 64 compliant front panel

▶ Specifications

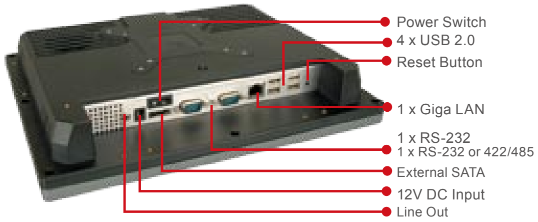
Model	AFL-10A-LX, AFL-10A-LX24V	AFL-10A-CX2	AFL-10A-CX	AFL-10A-9103	AFL-10A-ATOM
LCD Size	10.4"	10.4"	10.4"	10.4"	10.4"
Max Resolution	800 * 600	800 * 600	800 * 600	800 x 600	800 * 600
Brightness (cd/m2)	400	400	400	400	400
Contrast Ratio	500:1	500:1	500:1	500:1	500:1
LCD Color	262K	262K	262K	262K	262K
Pixel Pitch (mm)	211.2(H) x 158.4(V)	211.2(H) x 158.4(V)	211.2(H) x 158.4(V)	211.2(H) x 158.4(V)	211.2(H) x 158.4(V)
Viewing Angle (H-V)	120/100	120/100	120/100	120/100	120/100
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-LX800	AFLMB-CX2	AFLMB-CX700M	AFLMB-9103	AFLMB-ATOM-R10
CPU	AMD Geode™ LX 800 (500MHz)	VIA Eden™ 1.0GHz ULV	VIA C7 1.5GHz (with fan) VIA Eden™ 500MHz ULV	Intel® Celeron® M processor 1GHz 512KB Cache	N270 (Atom 1.6G)
Chipset	AMD Geode™ LX 800 + AMD Geode™ CS5536	CX700M	CX700M	Intel® 910GMLE Chipset	Intel® 945GSE / ICH7M
RAM	Supports one 1GB (maximum) 333MHz or 400MHz SO-DIMM	Support one 200-pin 1GB (maximum) 400MHz or 533MHz DDR II SO-DIMM	Support one 200-pin 1GB (maximum) 400MHz or 533MHz DDR II SO-DIMM	Support one 200-pin 2GB (maximum) 400MHz DDR II SO-DIMM	Supports one 2GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM
I/O Ports and Switches	1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 1 x Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Port	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 2 x Giga LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 1 x Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Port	1 x RS-232 2 x USB 2.0 1 x RS-232/422/485 1 x Power Switch 1 x Reset Button 2 x LAN Ports 1 x Audio Jack
SSD	CF Type II				
Watchdog Timer	Software programmable supports 1~255 sec. System reset				
Audio	AMP 1.5W + AMP 1.5W				
Expansion	1 x Mini PCI (Wireless LAN Module) , 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)			1 x PCIe mini card (Wireless LAN Module) , 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x Mini PCIe (Wireless 802.11 b/g LAN Module) , 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)
HDD Drive Bay	N/A	N/A	N/A	N/A	N/A
Optional HSDPA Module	Yes	Yes	Yes	Yes	Yes
Construction Material	ABS + PC Plastic front frame				
LED Function	1 x Power ON/OFF LED on front panel				
Mounting	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm / 100mm x 100mm				
Front Panel Color	Gray 7539U	Gray 7539U	Gray 7539U	Gray 7539U	Gray 7539U
Dimensions (WxHxD) (mm)	276 x 227 x 50.7	276 x 227 x 50.7	276 x 227 x 50.7	276 x 226.9 x 50.7	276 x 227 x 50.7
Operation Temperature (°C)	0°C~50°C	0°C~45℃	0°C~45℃	0°C~45°C	-10°C~50°C with CF Card
Storage Temperature (°C)	-20°C~60°C	-20°C~60℃	-20°C~60℃	-20°C~60°C	-20°C~60°C
Net Weight	1.4 Kg	1.4 kg	1.4 kg	1.4 kg	1.4 Kg
IP Level (front panel)	IP 64	IP 64	IP 64	IP 64	IP64
EMC	CE, FCC, CCC				
Safety	UL, CB	UL, CB	UL, CB	UL, CB	
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)				
Power Adapter	P/N:63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63000-FSP0481AD101C-RS Power: 48W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	P/N:63000-FSP0481AD101C-RS Power: 48W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	P/N:63000-FSP0481AD101C-RS Power: 48W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	P/N:63000-FSP0361AD101C-RS Power:36W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC
Power Requirement	12VDC or 18~30VDC	12VDC	12VDC	12VDC	12VDC
Power Consumption	25W	34W	34W	41W	28W

▶ Fully Integrated I/O

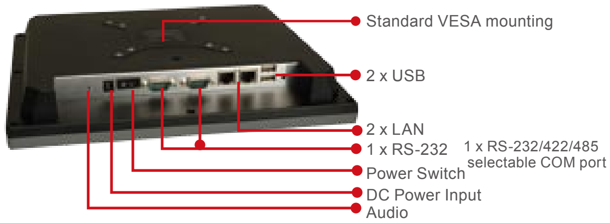
● AFL-10A-LX


Standard VESA mounting
2 x USB
2 x LAN
1 x RS-232, 1 x RS-232/422/485 selectable COM port
Power Switch
DC Power Input

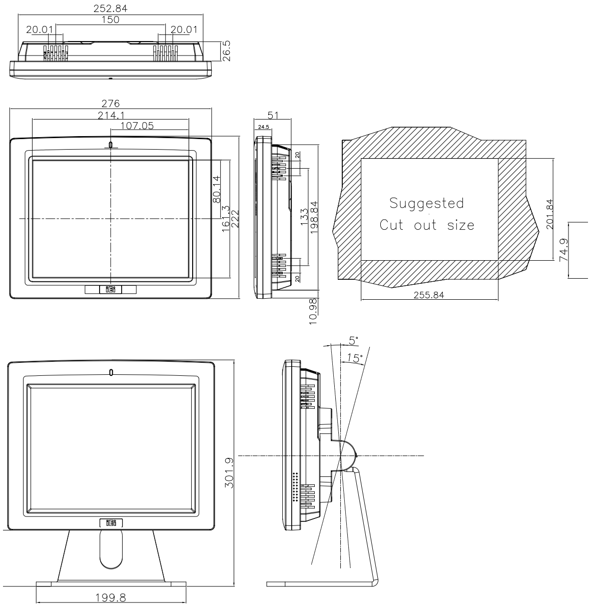
● AFL-10A-9103/CX2


Power Switch
4 x USB 2.0
Reset Button
1 x Giga LAN
1 x RS-232
1 x RS-232 or 422/485
External SATA
12V DC Input
Line Out

● AFL-10AH-ATOM


Standard VESA mounting
2 x USB
2 x LAN
1 x RS-232
1 x RS-232/422/485 selectable COM port
Power Switch
DC Power Input
Audio

▶ Dimensions (Unit:mm)


252.84
150
20.01
20.01
26.5
276
214.1
107.05
80.14
161.3
222
51
24.5
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133
198.84
20
10.98
Suggested Cut out size
201.84
74.9
255.84
5°
15°
301.9
199.8

▶ Ordering Information

Part Number	Description
AFL-10A-LX/WT-R/256MB/(HSDPA01)**	10.4", 400cd/m² SVGA fanless panel PC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-10A-LX/WT-R/512MB/(HSDPA01)**	10.4", 400cd/m² SVGA fanless panel PC with AMD Geode™ LX 800 CPU, 512MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-10A-CX2-E10G/WT-R/512MB/ **(HSDPA01)	10.4" 400cd/m² SVGA fanless panel PC with VIA Eden 1GHz ULV CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-10A-CX-15GZ/WT-R/512MB/ **(HSDPA01)	10.4" 400cd/m² SVGA panel PC with VIA C7 1.5GHzCPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-10A-CX-05GZ/WT-R/512MB/ **(HSDPA01)	10.4" 400cd/m² SVGA fanless panel PC with VIA Eden 500MHz ULV CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-10A-9103-10G/WT-R/1GB/(HSDPA01)**	10.4" 400cd/m² SVGA fanless panel PC with Celeron® M 1.0GHz 512K cache CPU,1GB DDR2 RAM, 802.11 b/g wireless module,touch screen, Bluetooth, RoHS
AFL-10A-LX24V/WT-R/256MB/(HSDPA01)**	10.4", 400cd/m² SVGA fanless panel PC with AMD Geode™ LX 800 CPU, 18~30VDC input, 256MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-10A-LX24V/WT-R/512MB/(HSDPA01)**	10.4", 400cd/m² SVGA fanless panel PC with AMD Geode™ LX 800 CPU, 18~30VDC input, 512MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-10A-ATOM-N270/WT-R/1GB-R10	10.4" 400cd/m² SVGA fanless panel PC with Intel® Atom™ N270 1.6GHz,802.11b/g wireless module,bluetooth module, touch screen ,1GB DDR2 533,RoHS

▶ ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-10A-LX	V			V		V	V	
AFL-10A-CX2					V	V		
AFL-10A-9103	V	V	V	V	V	V	V	
AFL-10A-ATOM								

▶ Options

		AFL-10A-LX	AFL-10A-CX	AFL-10A-CX2	AFL-10A-9103	AFL-10A-ATOM
Panel Mounting Kit		AFLPK-12				
Wall Mounting Kit		AFLWK-12				
Rack Mounting Kit		AFLRK-10				
ARM		ARM-11-RS / ARM-31-RS				
STAND		STAND-A12 / STAND-100-RS / STAND-150-RS				
OS	**Win CE 5.0**	AFLCF-10-LX-CE-R11	AFLCF-10-CX-CE	AFLCF-10-CX2-CE	AFLCF-10-9103-CE	AFLCF-10-ATOM-CE
	Win CE 6.0	AFLCF-10-LX-CE-CE060	AFLCF-10-CX-CE060	AFLCF10-CX2-CE060	AFLCF10-9103-CE060	AFLCF-10-ATOM-CE060
	Win XPE	AFLCF-10-LX-XPE-R11	AFLCF-10-CX-XPE	AFLCF-10-CX2-XPE	AFLCF-10-9103-XPE	AFLCF-10-ATOM-XPE
DC to DC converter module		IDD-930160-KIT				
Hybrid Card Reader		AFLP-10AMSI-U				
Magnetic Stripe Reader		AFLP-10AMSR-U				
DC 12V Input UPS		AUPS-A10-R10				
DV 9-36V Input UPS		AUPS-A20-R10				

▶ Packing List

Item	P/N	Q'ty	Specifications
Screws	44013-030041-RS	4	M3;ø5mm
Power Adapter	63000-FSP0361AD101C-RS 63000-FSP0481AD101C-RS	1	90~264V;12V;36W (for LX) 90~264V;12V;48W (for CX2/9103)
Power Cable	32000-000002-RS	1	1750MM,European Standard
User's Manual CD ROM	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

Note: AFL-10A-LX24V model without power adapter

AFL-12B-CX	**12.1" XGA Touch Panel PC** **VIA Eden™ 500MHz / C7 1.5GHz Processor**
AFL-12A-LX	**12.1" XGA Touch Panel PC** **AMD Geode LX-800 500 MHz Processor**
AFL-12B-CX2	**12.1" XGA Touch Panel PC** **VIA Eden™ 1GHz ULV Processor**
AFL-12B-9103	**12.1" XGA Touch Panel PC** **Intel® Celeron® M 1GHz 512KB Processor**
AFL-12A-ATOM	**12.1" Fanless XGA Touch Panel PC** **Intel® Atom™ N270 1.6G Processor**

Fanless

▶ Features

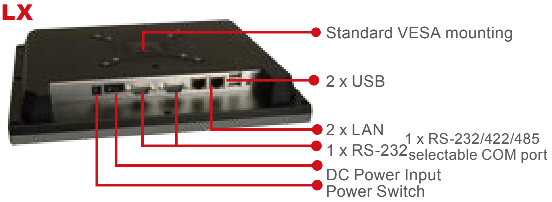
- 12.1" TFT LCD with resistive touch screen
- Built-in 802.11b/g Wireless LAN
- Built-in Bluetooth module
- Built-in two 1.5 W speakers
- Built-in HSDPA module for mobile connection (Optional)
- One compact flash slot
- IP 64 compliant front panel

▶ Specifications

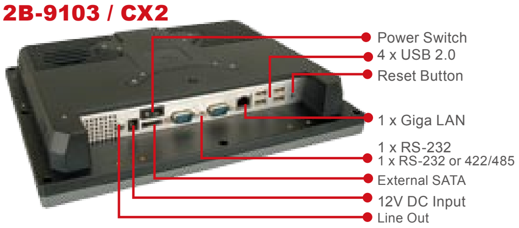
Model	AFL-12A-LX-R11 / AFL-12A-LX24V	AFL-12B-LXPOS	AFL-12B-CX	AFL-12B-CX2	AFL-12B-9103	AFL-12A-ATOM
LCD Size	12.1"	12.1"	12.1"	12.1"	12.1"	12.1"
Max Resolution	1024 * 768	1024 * 768 or 800 x 600	1024 * 768	1024 * 768	1024 * 768	1024 * 768
Brightness (cd/m²)	450	450 or 350	400	400	400	400
Contrast Ratio	700:1	700:1 or 500:1	500:1	500:1	500:1	500:1
LCD Color	262K	262K	262K	262K	262K	262K
Pixel Pitch (mm)	0.240(H) x 0.240(V)	0.240(H) x 0.240(V)	0.240(H) x 0.240(V)	0.240(H) x 0.240(V)	0.240(H) x 0.240(V)	0.240(H) x 0.240(V)
Viewing Angle (H-V)	160/160	160/160 or 140/120	160/160	160/160	160/160	160/160
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-LX800	AFLMB-LXPOS	AFLMB-CX7010M	AFLMB-CX2	AFLMB-9103	AFLMB-ATOM-R10
CPU	AMD Geode™ LX 800 (500MHz)	AMD Geode™ LX 800 (500MHz)	VIA C7 1.5GHz (with fan) VIA Eden™ 500MHz ULV	VIA EDEN 1GHz ULV	Intel® Celeron M 1.0GHz/512k Cache	Intel 945GSE / ICH7M
Chipset	AMD Geode™ LX 800 + AMD Geode ™ CS5536	AMD Geode™ LX 800 + AMD Geode™ CS5536	CX700M	CX700M	Intel® 910GMLE Chipset	N270 (Atom 1.6G)
RAM	Supports one 1GB (maximum) 333MHz or 400MHz SO-DIMM		Support one 200-pin 1GB (maximum) 400MHz or 533MHz DDR II SO-DIMM		Support one 200-pin 2GB (maximum) 400MHz DDR II SO-DIMM	
I/O Ports and Switches	1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button	2 x RS-232 COM port (pin9 with RI, 5v or 12V switch selectable) 1 x RJ-45 for 10/100Mbps LAN 1 x RJ-12 (12VDC) for Cash Drawer 2 x USB 2.0 1 x Power Switch 1 x Reset Button	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 2 x Giga LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 1 x Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Port	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 1 x Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Port	1 x RS-232 2 x USB 2.0 1 x RS-232/422/485 1 x Power Switch 1 x Reset Button 2 x LAN Ports 1 x Audio Jack
SSD	CF Type II					
Watchdog Timer	Software programmable supports 1~255 sec. System reset					
Audio	AMP 1.5W + AMP 1.5W					
Expansion	1 x Mini PCI (Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x Mini PCI (Wireless LAN Module)	1 x Mini PCI (Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)			1 x Mini PCIe (Wireless 802.11 b/g LAN Module) , 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)
HDD Drive Bay	1 x 2.5" IDE HDD bay or Optional HSDPA Module		1 x 2.5" SATA HDD bay or Optional HSDPA Module	1 x 2.5" SATA HDD bay or Optional HSDPA Module		
Construction Material	ABS + PC Plastic front frame					
LED Function	1 x Power ON/OFF LED on front panel					
Mounting	Panel, Wall, Rack, Stand or Arm VESA 75mm x 75mm / 100 x 100mm					
Front Panel Color	Gray 7539U	Gray 7539U	Gray 7539U	Gray 7539U	Gray 7539U	Gray 7539U
Dimensions (WxHxD) (mm)	304 x 246 x 50	304 x 246 x 56	304 x 246 x 56	304 x 246 x 56	304 x 246 x 56	304 x 246 x 49.5
Operation Temperature (°C)	0°C~50°C		0~40°C with HDD0~45°C with CF card or SATA interface 2.5" SSD HDD		0~40°C with HDD (smart fan control :fan mode) 0~45°C with CF card or SATA interface 2.5" SSD HDD (smart fan control:fanless mode)	-10°C~50°C with CF Card 0°C~40°C with HDD
Storage Temperature (°C)	-20°C~60°C					
Net Weight	1.8Kg					
IP Level (front panel)	IP 64					
EMC	CE, FCC, CCC					
Safety	UL, CB					
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)					
Power Adapter	P/N:63000-FSP0361AD101C-RS Power: 36W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63000-FSP0481AD101C-RS Power: 48W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	P/N:63000-FSP0481AD101C-RS Power: 48W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	P/N:63000-FSP0481AD101C-RS Power: 48W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	Power: 60W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC	P/N:63000-FSP0481AD101C-RS Power:48W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC
Power Requirement	12VDC or 18~30VDC	12VDC	12VDC	12VDC	12VDC	12VDC
Power Consumption	29W	29W	41W	41W	46W	32W

▶ Fully Integrated I/O

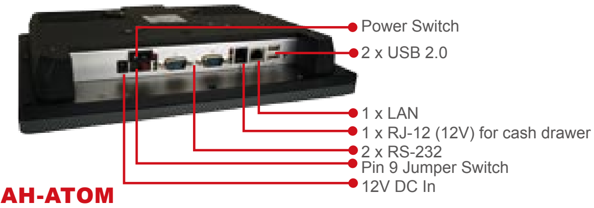
• AFL-12A-LX


Standard VESA mounting
2 x USB
2 x LAN
1 x RS-232
1 x RS-232/422/485 selectable COM port
DC Power Input
Power Switch

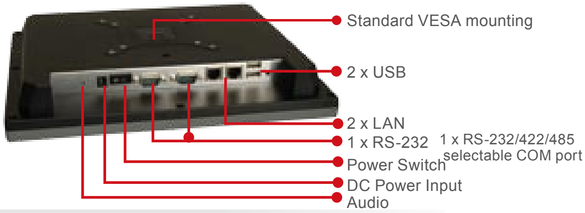
• AFL-12B-9103 / CX2


Power Switch
4 x USB 2.0
Reset Button
1 x Giga LAN
1 x RS-232
1 x RS-232 or 422/485
External SATA
12V DC Input
Line Out

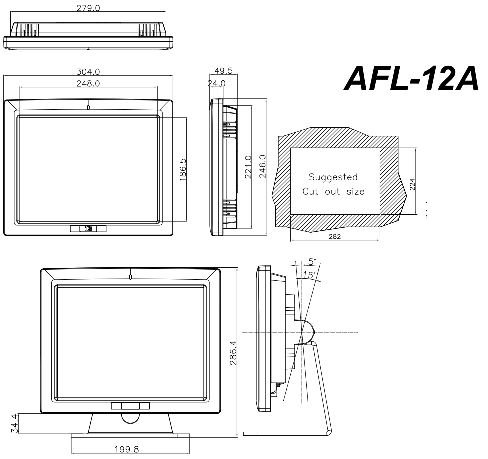
• AFL-12B-LXPOS

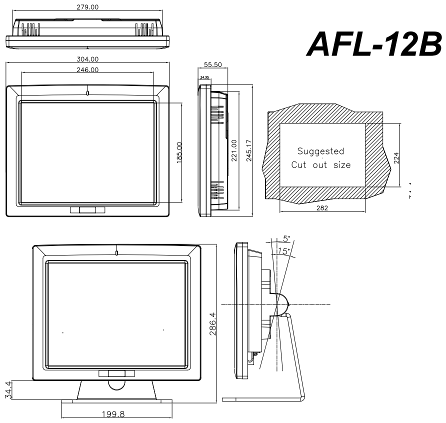

Power Switch
2 x USB 2.0
1 x LAN
1 x RJ-12 (12V) for cash drawer
2 x RS-232
Pin 9 Jumper Switch
12V DC In

• AFL-10AH-ATOM


Standard VESA mounting
2 x USB
2 x LAN
1 x RS-232
1 x RS-232/422/485 selectable COM port
Power Switch
DC Power Input
Audio

▶ Dimensions (Unit:mm)


AFL-12A
279.0
304.0
248.0
49.5
24.0
186.5
221.0
246.0
Suggested Cut out size
224
282
5°
15°
286.4
34.4
199.8


AFL-12B
279.00
304.00
246.00
55.50
185.00
221.00
245.17
Suggested Cut out size
224
282
5°
15°
286.4
34.4
199.8

▶ Ordering Information

Part Number	Description
AFL-12A-LX/WT-R/256MB-R11/**(HSDPA01)	12.1”, 450cd/m² XGA fanless panel PC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-12A-LX/WT-R/512MB-R11/**(HSDPA01)	12.1”, 450cd/m² XGA fanless panel PC with AMD Geode™ LX 800 CPU, 512MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-12BS-LXPOS/WT-R/256MB	12.1" 350cd/m² SVGA panel PC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11b/g wireless module, and touch screen, without STAND
AFL-12BX-LXPOS/WT-R/256MB	12.1" 450cd/m² XGA panel PC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11b/g wireless module, and touch screen, without STAND
AFL-12B-CX2-E10G/WT-R/512MB/**(HSDPA01)	12.1" 450cd/m² XGA fanless panel PC with VIA Eden 1GHz ULV CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-12B-CX-15GZ/WT-R/512MB	12.1" 450cd/m² XGA panel PC with VIA C7 1.5GHz CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-12B-CX-05GZ/WT-R/512MB	12.1" 450cd/m² XGA fanless panel PC with VIA Eden 500MHz ULV CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-12B-9103-10G/WT-R/1GB/**(HSDPA01)	12.1" 450cd/m² XGA fanless panel PC with Celeron® M 1.0GHz 512K cache CPU,1GB DDR2 RAM, 802.11 b/g wireless module,touch screen, Bluetooth, RoHS
AFL-12A-LX24V/WT-R/256MB	12.1”, 450cd/m² XGA fanless panel PC with AMD Geode™ LX 800 CPU, 18~30VDC input,256MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-12A-LX24V/WT-R/512MB	12.1”, 450cd/m² XGA fanless panel PC with AMD Geode™ LX 800 CPU, 18~30VDC input,512MB DDR RAM, 802.11b/g wireless module, Bluetooth module and touch screen, RoHS
AFL-12A-ATOM-N270/WT-R/1GB-R10	12.1" 400cd/m2 XGA fanless panel PC with Intel® Atom™ N270 1.6GHz,802.11b/g wireless module,bluetooth module, touch screen ,1GB DDR2 533,RoHS

Note:If the HSDPA module is used, the HDD can't be implemented.

▶ ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-12A-LX	V			V		V	V	
AFL-12B-CX2					V	V		
AFL-12B-9103								
AFL-12B-LXPOS	V			V		V	V	V
AFL-12A-ATOM								

▶ Options

		AFL-12A-LX	AFL-12B-LXPOS	AFL-12B-CX	AFL-12B-CX2	AFL-12B-9103	AFL-12A-ATOM
Panel Mounting Kit		AFLPK-12					
Wall Mounting Kit		AFLWK-12					
Rack Mounting Kit		AFLRK-12					
ARM		ARM-11-RS / ARM-31-RS					
STAND		STAND-A12 / STAND-POS12 / STAND-100-RS / STAND-150-RS					
OS	Win CE 5.0	AFLCF-12-LX-CE-R11	AFLCF-12-LXPOS-CE	AFLCF-12-CX-CE	AFLCF-12-CX2-CE	AFLCF-12-9103-CE	AFLCF-12-9103-CE
	Win CE 6.0	AFLCF-112-LX-CE-CE060	AFLCF-12-LXPOS-CE060	AFLCF-12-CX-CE060	AFLCF12-CX2-CE060	AFLCF12-9103-CE060	AFLCF12-9103-CE060
	Win XPE	AFLCF-12-LX-XPE-R11	AFLCF-12-LXPOS-XPE	AFLCF-12-CX-XPE	AFLCF-12-CX2-XPE	AFLCF-12-9103-XPE	AFLCF-12-9103-XPE
DC to DC converter module		IDD-930160-KIT					
Hybrid Card Reader		AFLP-12AMSI-U	AFLP-12BMSI-U				AFLP-12AMSI-U
Magnetic Stripe Reader		AFLP-12AMSR-U	AFLP-12BMSR-U				AFLP-12AMSR-U
DC 12V Input UPS		AUPS-A10-R10	AUPS-A10-R10				
DV 9-36V Input UPS		AUPS-A20-R10	AUPS-A20-R10				

▶ Packing List

Item	P/N	Q’ty	Specifications
Screws	44013-030041-RS	4	M3;ø5mm
Power Adapter	63000-FSP0361AD101C-RS 63000-FSP0481AD101C-RS 63000-FSP0601AD101C-RS	1	90~264V; 12V;36W (for LX) 90~264V; 12V;48W (for CX2/LXPOS) 90~264V; 12V;60W (for 9103)
Power Cable	32000-000002-RS	1	1750MM, European Standard
User’s Manual CD ROM	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

Note: AFL-12A-LX24V without power adapter

AFL-15A-CX

15" XGA X86 Touch Panel PC

VIA Eden™ 500MHz / C7 1.5GHz Processor

AFL-15A-LXPOS

15" XGA X86 POS Touch Panel PC

AMD Geode LX-800 500 MHz Processor

AFL-15A-915

15” XGA Touch Panel PC

Intel® Celeron® M 1.0GHz with 512KB L2 cache Processor

AFL-15B-915

15” XGA Touch Panel PC

Intel® Pentium® M 2GHz (Max.)

AFL-315A-945

► Specifications

Model	AFL-15A-LXPOS	AFL-15A-CX	AFL-15A-915-R11	AFL-15B-915-R11
LCD Size	15"	15"	15"	15"
Max Resolution	1024 x 768	1024 x 768	1024 x 768	1024x768
Brightness (cd/m²)	350	350	350	350
Contrast Ratio	700:1	700:1	700:1	700:1
LCD Color	262K	262K	262K	262K
Pixel Pitch (mm)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)
Viewing Angle (H-V)	140(H) / 125(V)	140(H) / 125(V)	140(H) / 125(V)	140(H) / 125(V)
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-LXPOS	AFLMB-CX700M	AFLMB-9152	AFLMB-9152
CPU	AMD Geode™ LX 800 (500MHz)	VIA C7 1.5GHz (with fan) VIA Eden™ 500MHz ULV	Intel® Celeron® M 1.0GHz with 512KB L2 cache Processor	Intel® Pentium® M Processor (up to 2.0GHz) Intel® Celeron® M processor
Chipset	AMD Geode™ LX 800 + AMD Geode™ CS5536	CX700M	Intel® 915GME / 910GMLE	Intel® 915GME
RAM	Supports one 1GB (maximum) 333MHz or 400MHz SO-DIMM	Support one 200-pin 1GB (maximum) 400MHz or 533MHz DDR II SO-DIMM	Supports two 200-pin 2GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM (Operating Temperature :0°C~35°C)	Supports two 200-pin 2GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM
I/O Ports and Switches	2 x RS-232 COM port (pin9 with RI, 5v or 12V switch selectable) 1 x RJ-45 for 10/100Mbps LAN 1 x RJ-12 (12VDC) for Cash Drawer 2 x USB 2.0 1 x Power Switch 1 x Reset Button	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 2 x Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio
SSD	CF Type II			
Watchdog Timer	Software Programmable supports 1~255 sec. System reset			
Audio	AMP 1.5W + 1.5W			
Expansion	1 x Mini PCI (Wireless LAN Module)	1 x Mini PCI (Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x PCIe mini card (802.11 b/g)(Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	
HDD Drive Bay	1 x 2.5" IDE HDD bay	1 x 2.5" SATA HDD bay or Optional HSDPA Module	1 x 2.5" SATA HDD bay or Optional HSDPA Module	1 x 2.5" SATA HDD bay
Optional HSDPA Module				Yes
Construction Material	ABS + PC Plastic front frame			
LED Function	1 x Power ON/OFF LED on front panel			
Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm			
Front Panel Color	Silver	Silver	Silver	Silver
Dimension (WxHxD) (mm)	394 x 309 x 61	394 x 309 x 61	394 x 309 x 61	394 x 309 x 74.6
Operation Temperature (°C)	0°C~50°C	0°C~40°C with HDD	0°C~40°C with HDD	0°C~40°C with HDD
		0°C~45°C with CF card or SATA interface 2.5"SSD HDD		
Storage Temperature (°C)	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
Net Weight	3.2 kg	3.2 kg	3.2 kg	5.8 Kg
IP Level(front panel)	IP 64			
EMC	CE, FCC, CCC			
Safety	UL, CB			
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)			
Power Adapter	P/N:63000-FSP0601AD101C746-RS Power: 60W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63SPU65105-000-RS Power: 80W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63000-FSP0601AD101C746-RS Power: 60W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 84W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC
Power Requirement	12VDC	12VDC	12VDC	12VDC
Power Consumption	38W	41W	41W	63W

AFL-15B-690

15" XGA X86 Digital Signage Touch Panel PC

AMD Athlon™ 64 x 2 Dual Core processor 5200+ (Max.)

AFL-15C-9652

15” XGA Touch Panel PC

Intel® Core.2 Duo T7500 2.2GHz processor (Max.)

AFL-315A-945

15" XGA X86 KIOSK Touch Panel PC

Intel Dual Core E2160 1.8GHz Processor

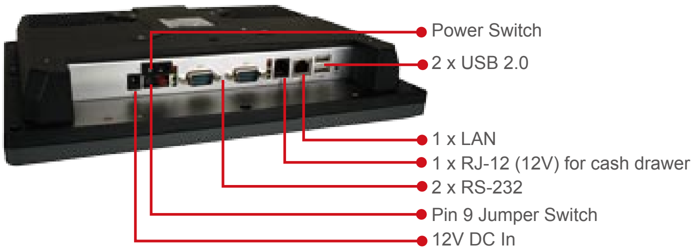
► Features

- 15" TFT LCD with resistive touch screen
- System memory up to 2 GB RAM
- Built-in CMOS camera for multimedia application (AFL-315A only)
- Built-in 802.11b/g (802.11 a/b/g/n) Wireless LAN
- Built-in Bluetooth module
- Built-in two 1.5 W / 3W speakers
- Optional HSDPA module for mobile connection
- One compact flash slot
- IP 64 compliant front panel

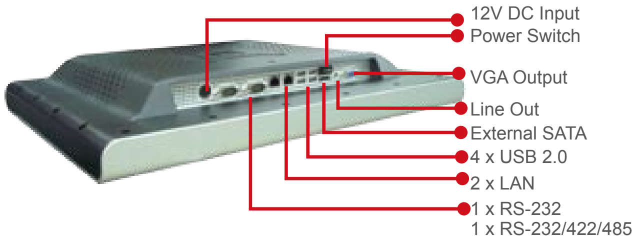
Model	AFL-15B-690	AFL-15C-9652	AFL-315A-945
LCD Size	15"	15"	15”
Max Resolution	1024x768	1024x768	1024x768
Brightness (cd/m²)	350	350	350
Contrast Ratio	700:1	700:1	700:1
LCD Color	262K	262K	262K
Pixel Pitch (mm)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)
Viewing Angle (H-V)	140(H) / 125(V)	140(H) / 125(V)	140(H) / 125(V)
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-690EAM2	AFLMB-9652	AFLMB-9454
CPU	AMD Athlon™ 64 X2 Dual-Core Processor 5200+ (max.)	Celeron® M 550 2.0 GHz CPU Core™2 Duo T7500 2.2GHz CPU	Intel® Dual Core Desktop Processor (E2160) 1.8GHz or others
Chipset	AMD 690E	Intel® GME965 Chipset	Intel® 945G
RAM	Supports one 200-pin 1GB(maximum) DDR2 SO-DIMM	Supports two 2.0 GB (max.) 400 MHz DDR2 SO-DIMM (system max. 4.0 GB)	DDR2 1GB support up to 4GB
I/O Ports and Switches	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x VGA 1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Audio Port 1 x Power Switch 1 x eSATA 1 x Reset Button 1 x Power Jack	1 x 12V/24V DC Input Jack 1 PS/2 3 x RS-232 COM port 1 x RS-232/422/485 COM port 1 x RJ-45 for Gbe LAN 8 x USB 2.0 1 x 24V DC output Jack 1 x Power Switch 1 x Reset Button 1 x DVI port 1 x VGA port 1 x Line in, 1 x Line out, 1 x MIC in
SSD	CF Type II	CF Type II	CF Type II
Watchdog Timer	Software Programmable supports 1~255 sec. System reset		
Audio	AMP 3W + AMP 3W	AMP 3W + AMP 3W	AMP 1.5W + AMP 1.5W
Expansion	1 x PCIe mini card (802.11 a/b/g/n) (Wireless LAN Module) 1 x Bluetooth Module (internal USB interface, Bluetooth V2.0)		1 x Mini PCI (802.11 a/b/g) (Wireless LAN Module) 1 x PCIe mini card 1 x Bluetooth Module (USB Interface, Bluetooth V2.0) 1 x 2 mega pixel Camera (USB interface)
HDD Drive Bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 3.5” SATA HDD or 1 x 2.5” SATA HDD
Optional HSDPA Module	Yes	Yes	N/A
Construction Material	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame
LED Function	1 x Power ON/OFF LED on front panel		N/A
Mounting	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)		
Front Panel Color	Silver	Gray 7539U	Black or White
Dimension (WxHxD) (mm)	394 x 309 x 74.6	393.06 x 308.06 x 74.6	363 x 322 x 80
Operation Temperature (°C)	0°C~40°C for HDD	0°C~40°C for HDD	0°C~45°C
	0°C~45°C with CF card or SATA interface 2.5"SSD HDD		
Storage Temperature (°C)	-20°C~60°C	-20°C~60°C	-20°C~60°C
Net Weight	5.8 Kg	5.8 Kg	10.2 Kg
IP Level(front panel)	IP 64		
EMC	CE,FCC,CCC		
Safety	UL,CB		
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)		
Power Adapter	Power: 150W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N: 63000-FSP096AHB-RSPower: 96W Input: 90VAC~264VAC @ 50/60HzOutput: 12VDC	P/N: ACE-D825AH, 252W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC@15A, 24VDC@3A
Power Requirement	12VDC	12VDC	12V and 24VDC
Power Consumption	103W	69W (Intel® T7500, 2GB memory, 80G HDD)	102W

▶ Fully Integrated I/O

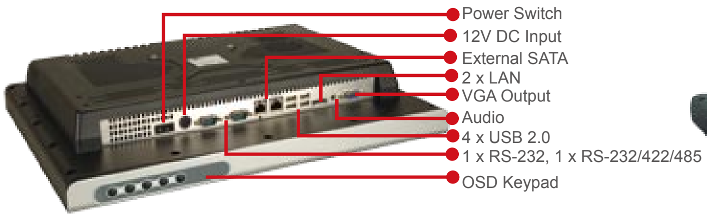
• AFL-15A-LXPOS


Power Switch
2 x USB 2.0
1 x LAN
1 x RJ-12 (12V) for cash drawer
2 x RS-232
Pin 9 Jumper Switch
12V DC In

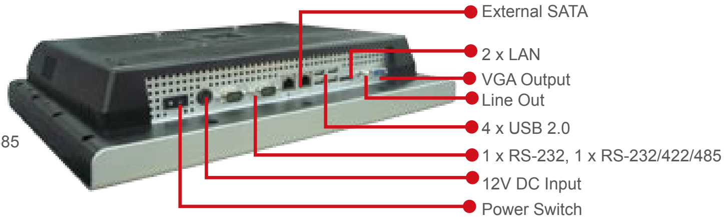
• AFL-15A-915 / AFL-15A-CX


12V DC Input
Power Switch
VGA Output
Line Out
External SATA
4 x USB 2.0
2 x LAN
1 x RS-232
1 x RS-232/422/485

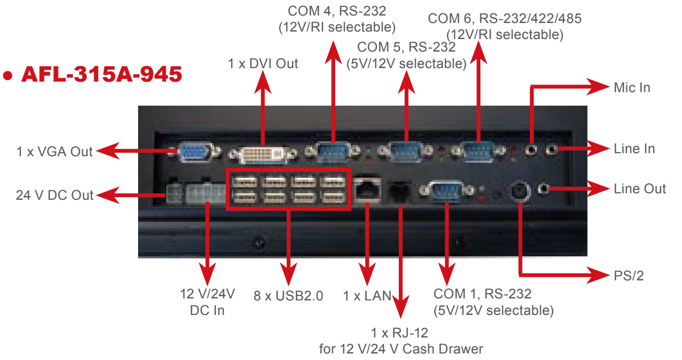
• AFL-15C-9652


Power Switch
12V DC Input
External SATA
2 x LAN
VGA Output
Audio
4 x USB 2.0
1 x RS-232, 1 x RS-232/422/485
OSD Keypad

• AFL-15B-690 /AFL-15B-915


External SATA
2 x LAN
VGA Output
Line Out
4 x USB 2.0
1 x RS-232, 1 x RS-232/422/485
12V DC Input
Power Switch

• AFL-315A-945

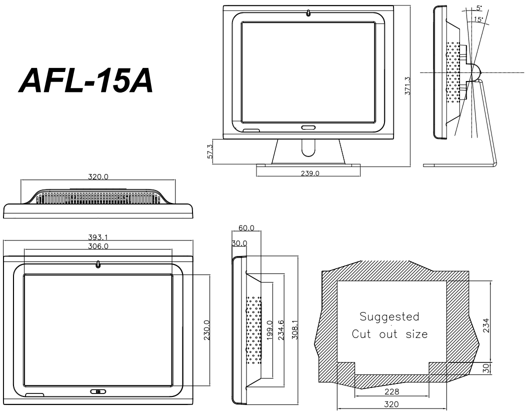

COM 4, RS-232
(12V/RI selectable)
COM 6, RS-232/422/485
(12V/RI selectable)
COM 5, RS-232
(5V/12V selectable)
1 x DVI Out
Mic In
1 x VGA Out
Line In
24 V DC Out
Line Out
PS/2
12 V/24V
DC In
8 x USB2.0
1 x LAN
COM 1, RS-232
(5V/12V selectable)
1 x RJ-12
for 12 V/24 V Cash Drawer

▶ Ordering Information

Part Number	Description
AFL-15A-915-10G/WT-R/1GB-R11	15" 350cd/m² XGA panel PC w/ Celeron® M 1.0GHz 512K cache CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-15A-CX-15GZ/WT-R/512MB	15" 350cd/m² XGA panel PC with VIA C7 1.5GHz CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-15A-CX-05GZ/WT-R/512MB	15" 350cd/m² XGA fanless panel PC with VIA EDEN 500MHz CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-15B-915-PM16G/WT-R/1GB/(HSDPA01)-R11**	15" 350cd/m² XGA panel PC w/ Pentium® M 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-15B-915-CM370/WT-R/1GB/(HSDPA01)-R11**	15" 350cd/m² XGA panel PC w/ Celeron® M 1.5GHz CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-15B-690E-AM2/WT-R/1GB/(HSDPA01)-R10**	15" 350cd/m² XGA panel PC w/ AMD Athlon 64 X2 Dual-Core 4800+ 2.5GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g/n wireless module, touch screen, Bluetooth, ROHS
AFL-15C-9652-CM550/WT-R/1GB/(HSDPA01)**	15" 350cd/m² XGA panel PC with Celeron® M 550 2.0GHz CPU,1GB DDR2 RAM,802.11 a/b/g/n wireless module,touch screen,Bluetooth,RoHS
AFL-15C-9652-T7500/WT-R/2GB/(HSDPA01)**	15" 350cd/m² XGA panel PC with Core™2 Dou T7500 2.2GHz CPU,2GB DDR2 RAM,802.11 a/b/g/n wireless module,touch screen,Bluetooth,RoHS
AFL-15A-LXPOS/WT-R/256MB	15" 350cd/m² XGA panel PC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11b/g wireless module, and touch screen, without STAND
AFL-315AB-945-E2160/WT-R/1GB/160G	15" 350cd/m² XGA panel PC with Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 160G SATA HDD, 802.11 b/g wireless module, touch screen, 2MP Camera, Blutooth, black color
AFL-315AW-945-E2160/WT-R/1GB/160G	15" 350cd/m² XGA panel PC with Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 160G SATA HDD, 802.11 b/g wireless module, touch screen, 2MP Camera, Blutooth, black color

▶ Dimensions (Unit:mm)

AFL-15A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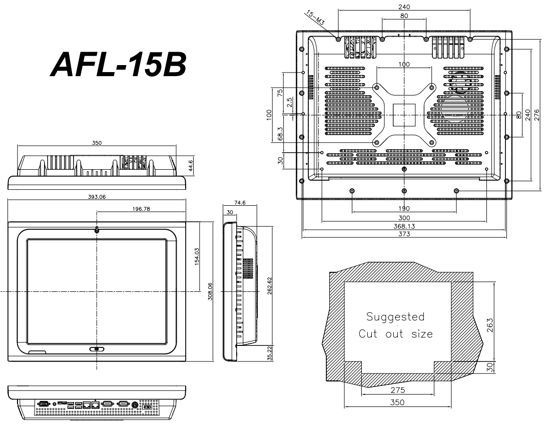
57.3
239.0
5°
15°
320.0
393.1
306.0
230.0
60.0
30.0
199.0
234.6
308.1
Suggested
Cut out size
234
30
228
320

AFL-15B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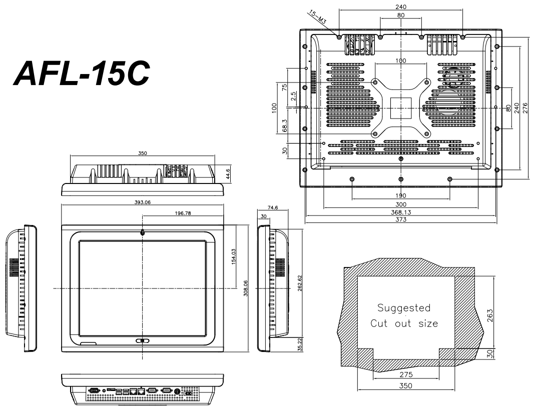
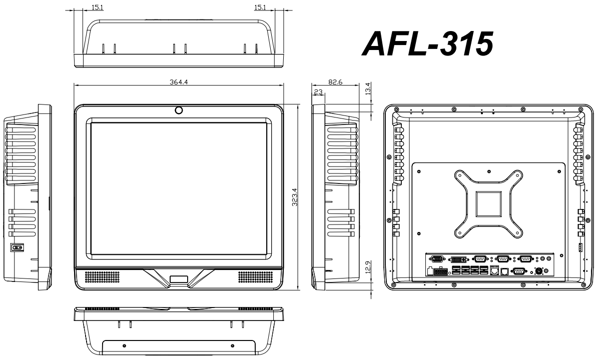
80
15-M3
100
75
2.5
68.3
30
80
240
276
190
300
368.13
373
350
44.6
393.06
196.78
154.03
308.06
74.6
30
262.62
35.22
Suggested
Cut out size
263
30
275
350

AFL-15C


240
80
15-M3
100
75
2.5
68.3
30
80
240
276
190
300
368.13
373
350
44.6
393.06
196.78
154.03
308.06
74.6
30
262.62
35.22
Suggested
Cut out size
263
30
275
350

AFL-315


15.1
15.1
364.4
323.4
82.6
13.4
12.9

▶ ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-15A-915	V	V	V	V	V	V	V	
AFL-15B-915	V	V	V	V	V	V	V	
AFL-15B-690	V	V	V	V	V	V	V	
AFL-15C-9652	V	V	V	V	V	V	V	
AFL-15A-LXPOS	V			V		V	V	V
AFL-315A-945	V	V	V	V	V	V	V	

▶ Packing List

Item	P/N	Q'ty	Specifications
Screws	44013-030041-RS	4	M3;ø5mm
Power Adapter	63000-FSP0601AD101C746-RS 63000-FSP0841ADC11118-RS 63000-FSP150AHA312-RS 63000-FSP096AHB-RS ACE-D825A	1	90~264V; 12V;60W (15A-915-10G / 15A-LXPOS) 90~264V; 12V;84W (15B-915) 90~264V; 12V;150W (15B-690) 90~264V; 12V;96W (15C-9652) 90~264V;12V/24V;252 W(315A-945)
Power Cable	32000-000002-RS	1	1750MM, European Standard
User's Manual CD ROM	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

▶ Options

		AFL-315A-945	AFL-15A-CX	AFL-15A-LXPOS	AFL-15A-915-R11	AFL-15B-915-R11	AFL-15B-690	AFL-15C-9652
Panel Mounting Kit		AFLPK-315A	AFLPK-15			AFLPK-15B		
Wall Mounting Kit		AFLWK-19						
Rack Mounting Kit		N/A	AFLRK-15			AFLRK-15B		
ARM		ARM-11-RS/ARM-31-RS						
STAND		STAND-A19/STAN-B19/STAND-210-RS						
OS	**Win CE 5.0**	AFLCF-315-945-CE	AFLCF-15-CX-CE	AFLCF-15-LXPOS-CE	AFLCF-15-915-CE-R11		AFLCF-15-690-CE	AFLCF-15-9652-CE
	Win CE 6.0	AFLCF-315-945-CE060	AFLCF-15-CX-CE060	AFLCF-15-LXPOS-CE060	AFLCF-15-915-CE060-R11		AFLCF-15-690-CE050	AFLCF-15-9652-CE060
	Win XPE	AFLCF-315-945-XPE	AFLCF-15-CX-XPE	AFLCF-15-945-XPE	AFLCF-15-915-XPE-R11		AFLCF-15-690-XPE	AFLCF-15-9652-XPE
Hybrid Card Reader		N/A	AFLP-17AMSI-U			AFLP-17BMSI-U		
Magnetic Stripe Reader		N/A	AFLP-17AMSR-U			AFLP-17BMSR-U		
DC 12V Input UPS		AUPS-B10-R10	AUPS-B10-R10			AUPS-B10-R10		
DV 9-36V Input UPS		AUPS-B20-R10	AUPS-B20-R10			AUPS-B20-R10		

AFL-17A-915

17” SXGA Touch Panel PC

Intel® Celeron® M 1.0GHz with 512KB L2 cache Processor

AFL-17B-915

17” SXGA Touch Panel PC

Intel® Pentium® M 2GHz (Max.)

AFL-17B-690

17” SXGA X86 Digital Signage Touch Panel PC

AMD Athlon™ 64 x 2 Dual Core processor 5200+ (Max.)

AFL-317A-945

► Specifications

Model	AFL-17A-CX	AFL-17A-915-R11	AFL-17B-915-R11	AFL-17B-690
LCD Size	17"	17"	17"	17"
Max Resolution	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Brightness (cd/m²)	300	300	300	300
Contrast Ratio	800:1	800:1	800:1	800:1
LCD Color	16.7M	16.7M	16.7M	16.7M
Pixel Pitch (mm)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)
Viewing Angle (H-V)	160(H) / 160(V)	160(H) / 160(V)	160(H) / 160(V)	160(H) / 160(V)
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-CX700M	AFLMB-9152	AFLMB-9152	AFLMB-690EAM2
CPU	VIA C7 1.5GHz (with fan) VIA Eden™ 500MHz ULV	Intel® Celeron® M 1.0GHz with 512KB L2 cache Processor	Intel® Pentium® M Processor (up to 2.0GHz) Intel® Celeron® M processor	AMD Athlon™ 64 X2 Dual-Core Processor 5200+ (max.)
Chipset	CX700M	Intel® 915GME / 910GMLE	Intel® 915GME	AMD 690E
RAM	Support one 200-pin 1GB (maximum) 400MHz or 533MHz DDR II SO-DIMM	Supports two 200-pin 2GB(maximum) 400MHz or 533MHz DDR2 SO-DIMM (Operating Temperature :0°C~35°C)	Supports two 200-pin 2GB(maximum) 400MHz or 533MHz DDR2 SO-DIMM	Supports one 200-pin 1GB(maximum) DDR2 SO-DIMM
I/O Ports and Switches	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 2 x Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack	1x External SATA 1 x RS-232 1 x RS-232/422/485 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio
SSD	CF Type II	CF Type II	CF Type II	CF Type II
Watchdog Timer	Software programmable supports 1~255 sec. System reset			
Audio	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W	AMP 3W + AMP 3W	AMP 3W + AMP 3W
Expansion	1 x Mini PCI (802.11 b/g)(Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x PCIe mini card (802.11 b/g)(Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)		1 x PCIe mini card (802.11 a/b/g/n)(Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)
HDD Drive Bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay
Optional HSDPA Module	Yes	Yes	Yes	Yes
Construction Material	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame
LED Function	1 x Power ON/OFF LED on front panel			
Mounting	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)			
Front Panel Color	Silver	Silver	Silver	Silver
Dimension (WxHxD)(mm)	428 x 350 x 65	428 x 350 x 65	428 x 350 x 76	428 x 350 x 76
Operation Temperature (°C)	0°C~40°C with HDD	0°C~40°C with HDD	0°C~40°C with HDD	0°C~40°C for HDD
	0°C~45°C with CF card or SATA interface 2.5"SSD HDD			
Storage Temperature (°C)	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
Net Weight	5 kg	5 kg	5.8 Kg	5.8 Kg
IP Level(front panel)	IP 64	IP 64	IP 64	IP 64
EMC	CE, FCC, CCC	CE, FCC, CCC	CE, FCC, CCC	CE,FCC,CCC
Safety	UL, CB	UL, CB	UL, CB	UL,CB
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)			
Power Adapter	P/N:63SPU65105-000-RS Power: 80W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	P/N:63000-FSP0841ADC11118-RS Power: 84W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 96W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 150W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC
Power Requirement	12VDC	12VDC	12VDC	12VDC
Power Consumption	61W	61W	80W (Intel® Pentium® M Processor 2.0GHz, 2GB memory, 40G HDD)	117W

AFL-17C-9652

17” SXGA Touch Panel PC

IntelR Core.2 Duo T7500 2.2GHz processor (Max.)

AFL-317-945

17" SXGA KIOSK Touch Panel PC

Intel Dual Core E2160 1.8GHz Processor

AFL-17A-CX

17” SXGA Touch Panel PC

VIA Eden™ 500MHz / C7 1.5GHz Processor

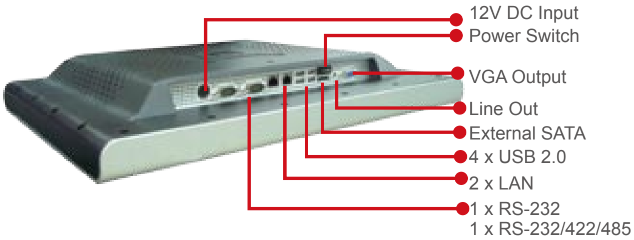
▶ Features

- 17” TFT LCD with resistive touch screen
- System memory up to 2 GB SDRAM
- Built-in CMOS camera with digital microphone for multimedia application (AFL-317A only)
- Built-in 802.11b/g (802.11 a/b/g/n)Wireless LAN
- Built-in Bluetooth module
- Built-in two 1.5 W / 3W speakers
- Built-in HSDPA module for mobile connection
- One compact flash slot
- IP 64 compliant front panel

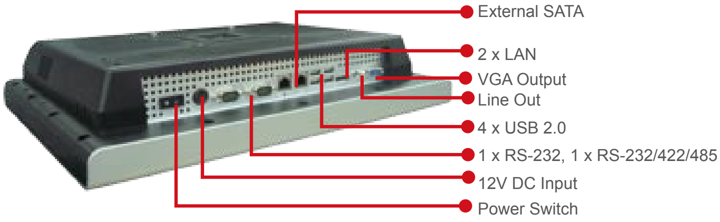
Model	AFL-17C-9652	AFL-317A-945
LCD Size	17"	17”
Max Resolution	1280 x 1024	1280 x 1024
Brightness (cd/m²)	300	300
Contrast Ratio	800:1	800:1
LCD Color	16.7M	16.7M
Pixel Pitch (mm)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)
Viewing Angle (H-V)	160(H) / 160(V)	160(H) / 160(V)
Backlight MTBF	50000 hrs	50000 hrs
SBC Model	AFLMB-9652	AFLMB-9454
CPU	Celeron® M 550 2.0 GHz CPU Core™2 Duo T7500 2.2GHz CPU	Intel® Dual Core Desktop Processor (E2160) 1.8GHz or others
Chipset	Intel® GME965 Chipset	Intel® 945G
RAM	Supports two 200-pin 4.0 GB (max.) 400 MHz DDR2 SO-DIMM (system max. 4.0 GB)	DDR2 1GB support up to 4GB
I/O Ports and Switches	1 x VGA 1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 2 x RJ-45 for Giga LAN 1 x Power Jack 4 x USB 2.0 1 x Audio Port 1 x Power Switch 1 x eSATA 1 x Reset Button	1 x 12V/24V DC Input Jack 1 PS/2 3 x RS-232 COM port 1 x RS-232/422/485 COM port 1 x RJ-45 for Gbe LAN 8 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x DVI port 1 x VGA port 1 x Line in, 1 x Line out 1 x MIC in 1 x 24V DC output Jack
SSD	CF Type II	CF Type II
Watchdog Timer	Software programmable supports 1~255 sec. System reset	
Audio	AMP 3W + AMP 3W	AMP 1.5W + AMP 1.5W
Expansion	1 x PCIe mini card (802.11 a/b/g/n)(Wireless LAN Module) 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)	1 x PCIe mini card 1 x Mini PCI (Wireless LAN 802.11 a/b/g modile) 1 x Bluetooth module (USB interface, Bluetooth V2.0) 1 x 300K pixel Camera with digital microphone
HDD Drive Bay	1 x 2.5" SATA HDD bay	1 x 3.5” SATA HDD or 1 x 2.5” SATA HDD 1 slim type ODD bay
Optional HSDPA Module	Yes	N/A
Construction Material	ABS + PC Plastic front frame	ABS + PC Plastic front frame
LED Function	1 x Power ON/OFF LED on front panel	
Mounting		
Front Panel Color	Gray 7539U	Black or White
Dimension (WxHxD)(mm)	428 x 350 x 76	398 x 363 x 92
Operation Temperature (°C)	0°C~40°C for HDD	0°C~45°C
Storage Temperature (°C)	-20°C~60°C	-20°C~60°C
Net Weight	5.8 Kg	13.4 Kg
IP Level(front panel)	IP 64	IP64
EMC	CE,FCC,CCC	CE, FCC, CCC
Safety	UL,CB	UL. CB
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)	
Power Adapter	P/N: 63000-FSP096AHB-RSPower: 96W Input: 90VAC~264VAC @ 50/60HzOutput: 12VDC	P/N: ACE-D825AH, 252W Input: 90VAC~264VAC @ 50/60Hz Output: 12VDC@15A, 24VDC@3A
Power Requirement	12VDC	12V and 24VDC
Power Consumption	86W (Intel® T7500, 2GB memory, 80G HDD)	127W

▶ Fully Integrated I/O

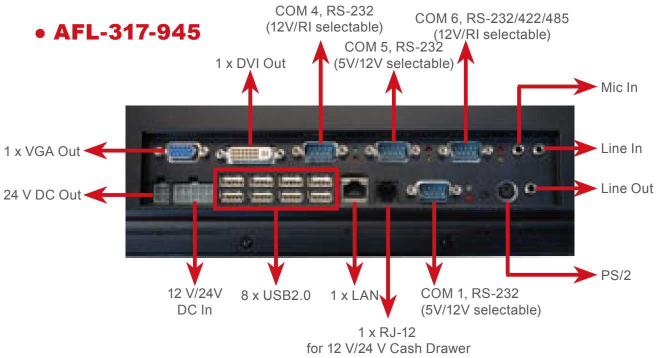
• AFL-17A-915 / AFL-17A-CX


12V DC Input
Power Switch
VGA Output
Line Out
External SATA
4 x USB 2.0
2 x LAN
1 x RS-232
1 x RS-232/422/485

• AFL-17B-690 / AFL-17B-915


External SATA
2 x LAN
VGA Output
Line Out
4 x USB 2.0
1 x RS-232, 1 x RS-232/422/485
12V DC Input
Power Switch

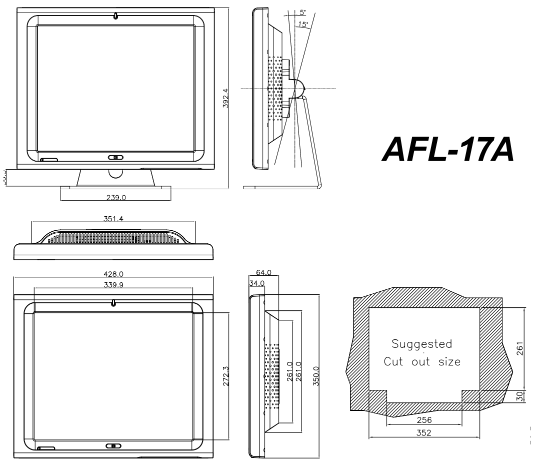
• AFL-317-945


COM 4, RS-232
(12V/RI selectable)
COM 6, RS-232/422/485
(12V/RI selectable)
COM 5, RS-232
(5V/12V selectable)
1 x DVI Out
Mic In
1 x VGA Out
Line In
24 V DC Out
Line Out
PS/2
12 V/24V
DC In
8 x USB2.0
1 x LAN
COM 1, RS-232
(5V/12V selectable)
1 x RJ-12
for 12 V/24 V Cash Drawer

▶ Ordering Information

Part Number	Description
AFL-17A-CX-15GZ/WT-R/512MB	17" 300cd/m² SXGA panel PC with VIA C7 1.5GHz CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-17A-CX-05GZ/WT-R/512MB	17" 300cd/m² SXGA fanless panel PC with VIA EDEN 500MHz CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-17A-915-10G/WT-R/1GB-R11	17" 300cd/m² SXGA panel PC w/ Celeron® M 1.0GHz 512K cache CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-17B-915-PM16G/WT-R/1GB/(HSDPA01)-R11**	17" 300cd/m² SXGA panel PC w/ Pentium® M 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-17B-915-CM370/WT-R/1GB/(HSDPA01)-R11**	17" 300cd/m² SXGA panel PC w/ Celeron® M 1.5GHz CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-17B-690E-AM2/WT-R/1GB **(HSDPA01)-R10	17" 300cd/m² SXGA panel PC w/ AMD Athlon™ 64 X2 Dual-Core 4800+ 2.5GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g/n wireless module, touch screen, Bluetooth, RoHS
AFL-17C-9652-CM550/WT-R/1GB/(HSDPA01)**	17" 300cd/m² SXGA panel PC with Celeron® M 550 2.0GHz CPU,1GB DDR2 RAM,802.11 a/b/g/n wireless module,touch screen,Bluetooth, RoHS
AFL-17C-9652-T7500/WT-R/2GB/(HSDPA01)**	17" 300cd/m² SXGA panel PC with Core™2 Dou T7500 2.2GHz CPU,2GB DDR2 RAM,802.11 a/b/g/n wireless module,touch screen,Bluetooth, RoHS
AFL-317AB-945-E2160/WT-R/1GB/160G-R10	17" 300cd/m² SXGA panel PC with Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, 160G SATA HDD, 802.11 b/g wireless module, touch screen, 300K Pixel Camera w/ Microphone, Blutooth, black color

▶ Dimensions (Unit:mm)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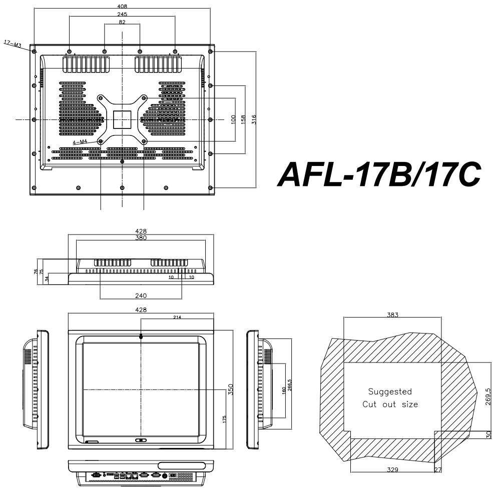
15°
392.4
239.0
351.4
428.0
339.9
272.3
64.0
34.0
261.0
261.0
350.0
Suggested
Cut out size
261
30
256
352

AFL-17A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245
82
17-M3
4-M4
100
158
316
428
380
76
75
34
10
10
240
428
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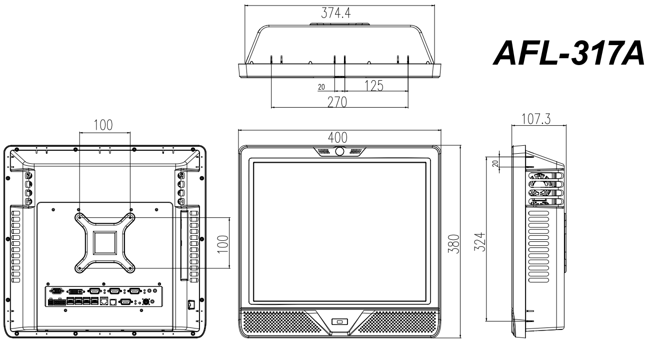
175
160
266.5
383
Suggested
Cut out size
269.5
30
329
27

AFL-17B/17C


374.4
20
125
270
100
100
400
380
324
107.3
20

AFL-317A

▶ ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-17A-915	V	V	V	V	V	V	V	
AFL-17B-915	V	V	V	V	V	V	V	
AFL-17B-690	V	V	V	V	V	V	V	
AFL-17C-9652	V	V	V	V	V	V	V	
AFL-317A-945	V	V	V	V	V	V	V	

▶ Packing List

Item	P/N	Q'ty	Specifications
Screws	44013-030041-RS	4	M3;ø5mm
Power Adapter	63000-FSP0841ADC11118-RS 63000-FSP096AHB-RS 63000-FSP150AHA312-RS ACE-D825A	1	90~264V;12V;84W (17A-915-10G) 90~264V;12V;96W (17B-915/17C-9652) 90~264V;12V;150W (17B-690) 90~264V;12V/24V;252W (317A-945)
Power Cable	32000-000002-RS	1	1750MM,European Standard
User's Manual CD ROM	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

▶ Options

		AFL-317A-945	AFLCF-17A-CX	**AFL-17A-915-R11**	**AFL-17B-915-R11**	**AFL-17B-690**	AFL-17C-9652
Panel Mounting Kit		AFLPK-317A	AFLPK-17		AFLPK-17B		
Wall Mounting Kit		AFLWK-19					
Rack Mounting Kit		N/A	AFLRK-17		AFLRK-17B		
ARM		ARM-11-RS/ARM-31-RS					
STAND		STAND-A19/STAN-B19/STAND-210-RS					
OS	**Win CE 5.0**	AFLCF-317-945-CE	AFLCF-17-CX-CE	AFLCF-17-915-CE-R11		AFLCF-17-690-CE050	AFLCF-17-9652-CE
	Win CE 6.0	AFLCF-317-945-CE060	AFLCF-17-CX-CE060	AFLCF-17-915-CE060-R11		AFLCF-17-690-CE050	AFLCF-17-9652-CE060
	Win XPE	AFLCF-317-945-XPE	AFLCF-17-CX-XPE	AFLCF-17-915-XPE-R11		AFLCF-17-690-XPE	AFLCF-17-9652-XPE
Hybrid Card Reader		N/A	AFLP-17AMSI-U		AFLP-17BMSI-U		
Magnetic Stripe Reader		N/A	AFLP-17AMSR-U		AFLP-17BMSR-U		
DC 12V Input UPS		AUPS-B10-R10	AUPS-B10-R10		AUPS-B10-R10		
DV 9-36V Input UPS		AUPS-B20-R10	AUPS-B20-R10		AUPS-B20-R10		

AFL-19A-CX

19” SXGA Touch Panel PC

VIA Eden™ 500MHz / C7 1.5GHz Processor

AFL-19A-915

19” SXGA Touch Panel PC

Intel® Celeron® M 1.0GHz with 512KB L2 cache Processor

AFL-19B-915

19” SXGA Touch Panel PC

Intel® Pentium® M 2GHz (Max.)

AFL-19B-690

19" SXGA X86 Digital Signage Touch Panel PC

AMD Athlon™ 64 x 2 Dual Core processor 5200+ (Max.)

AFL-19C-9652

19" SXGA Touch Panel PC

Intel® Core™2 Duo T7500 2.2GHz processor (Max.)

► Features

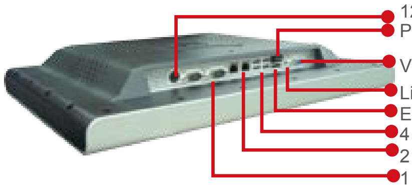
- 19” TFT LCD with resistive touch screen
- System memory up to 2 GB SDRAM
- Built-in 802.11b/g (802.11 a/b/g/n)Wireless LAN
- Built-in Bluetooth module
- Built-in two 3 W speakers
- Built-in HSDPA module for mobile connection
- One compact flash slot
- IP 64 compliant front panel

► Specifications

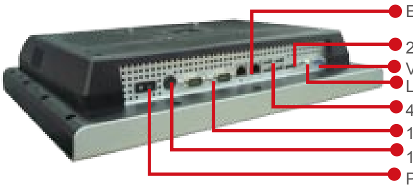
Model	AFL-19A-CX	AFL-19A-915-R11	AFL-19B-915-R11	AFL-19B-690	AFL-19C-9652
LCD Size	19"	19"	19"	19"	19"
Max Resolution	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Brightness (cd/m^2)	300	300	300	300	300
Contrast Ratio	800:1	800:1	800:1	800:1	800:1
LCD Color	16.7M	16.7M	16.7M	16.7M	16.7M
Pixel Pitch (mm)	0.294(H) x 0.294(V)	0.294(H) x 0.294(V)	0.294(H) x 0.294(V)	0.294(H) x 0.294(V)	0.294(H) x 0.294(V)
Viewing Angle (H-V)	160(H) / 160(V)	160(H) / 160(V)	160(H) / 160(V)	160(H) / 160(V)	178(H) / 178(V)
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-CX700M	AFLMB-9152	AFLMB-9152	AFLMB-690EAM2	AFLMB-9652
CPU	VIA C7 1.5GHz (with fan) VIA Eden™ 500MHz ULV	Intel® Celeron® M (1.0GHz) with 512KB L2 Cache	Intel® Pentium® M Processor (up to 2.0GHz) Intel® Celeron® M processor	AMD Athlon™ 64 X2 Dual-Core Processor 5200+ (max.)	Celeron® M 550 2.0 GHz CPU Core™2 Duo T7500 2.2GHz CPU
Chipset	CX700M	Intel® 915GME/Intel® 910GMLE	Intel® 915GME	AMD 690E	Intel® GME965
RAM	Support one 200-pin 1GB (maximum) 400MHz or 533MHz DDR II SO-DIMM	Supports One DDR2 SO-DIMM 1.0 GB (max.) /Two DDR2 SO-DIMM 2.0 GB (max.) (Operating Temperature :0°C~35°C)	Supports two 200-pin 2GB (maximum) 400MHz or 533MHz DDR2 SO-DIMM	Supports one 200-pin 1GB (maximum) DDR2 SO-DIMM	Supports two 200-pin 4.0 GB (max.) 400 MHz DDR2 SO-DIMM (system max. 4.0 GB)
I/O Ports and Switches	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 2 x Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x VGA 1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Audio Port 1 x Power Switch 1 x eSATA 1 x Reset Button 1 x Power Jack
SSD	CF Type II				
Watchdog Timer	Software programmable supports 1~255 sec. System reset				
Audio	AMP 1.5W+AMP 1.5W	AMP 3W+AMP 3W			
Expansion	1 x PCIe mini card (802.11 b/g)(Wireless LAN Module), 1 x Bluetooth Module (USB Interface, Bluetooth V2.0)				
HDD Drive Bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay
Optional HSDPA Module	Yes	Yes	Yes	Yes	Yes
Construction Material	ABS + PC Plastic front frame				
LED Function	1 x Power ON/OFF LED on the front panel				
Mounting	Panel, Wall,Stand and Arm (VESA 100mm x 100mm)				
Front Panel Color	Silver	Silver	Silver	Silver	Silver
Dimension (WxHxD) (mm)	470x 383 x 67	470x 383 x 67	470x 383 x 78.4	470x 383 x 78.4	469.94 x 382.46 x 78.4
Operation Temperature (°C)	0°C~40°C with HDD	0°C~40°C with HDD	0°C~40°C with HDD	0°C~40°C for HDD	0°C~40°C for HDD
	0°C~45°C with CF card or SATA interface 2.5"SSD HDD				
Storage Temperature (°C)	-20°C~60°C				
Net Weight	5.8 Kg	5.8 Kg	6.2 Kg	6.2 Kg	6.2 Kg
IP Level(front panel)	IP 64				
EMC	CE, FCC, CCC				
Safety	UL, CB				
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)				
Power Adapter	P/N:63SPU65105-000-RS Power: 80W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 84W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC			P/N: 63000-FSP096AHB RS Power: 96WInput:90VAC~264VAC @ 50/60HzOutput: 12VDC
Power Requirement	12VDC	12VDC	12VDC	12VDC	12VDC
Power Consumption	64W	68W	82W	124W	88W (Intel® T7500, 2GB memory, 80G HDD)

▶ Fully Integrated I/O

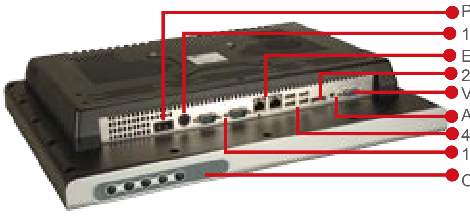
• AFL-19A-915 / AFL-19A-CX


12V DC Input
Power Switch
VGA Output
Line Out
External SATA
4 x USB 2.0
2 x LAN
1 x RS-232
1 x RS-232/422/485

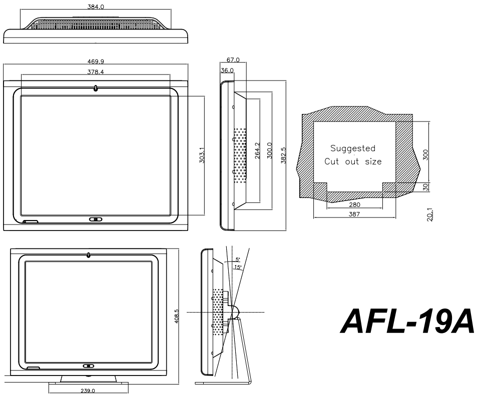
• AFL-19B-915 / AFL-19B-690


External SATA
2 x LAN
VGA Output
Line Out
4 x USB 2.0
1 x RS-232, 1 x RS-232/422/485
12V DC Input
Power Switch

• AFL-19C-9652


Power Switch
12V DC Input
External SATA
2 x LAN
VGA Output
Audio
4 x USB 2.0
1 x RS-232, 1 x RS-232/422/485
OSD Keypad

▶ Dimensions (Unit:mm)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378.4
67.0
36.0
303.1
264.2
300.0
382.5
Suggested
Cut out size
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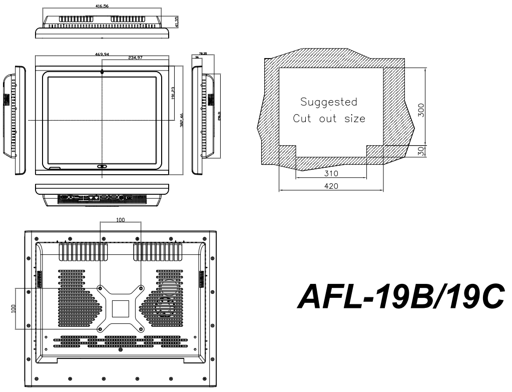
387
20.1
239.0
AFL-19A


Suggested
Cut out size
300
30
310
420
100
100
AFL-19B/19C

▶ Ordering Information

Part Number	Description
AFL-19A-CX-15GZ/WT-R/512MB	19" 300cd/m² SXGA panel PC with VIA C7 1.5GHz CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-19A-CX-05GZ/WT-R/512MB	19" 300cd/m² SXGA panel PC with VIA EDEN 500MHz CPU, 512 MB DDR2 RAM, 802.11 b/g wireless module, touch screen, bluetooth, RoHS
AFL-19A-915-10G/WT-R/1GB/ **(HSDPA01)-R11	19" 300cd/m² SXGA panel PC w/ Celeron® M 1.0GHz 512K cache CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-19B-915-PM16G/WT-R/1GB/ **(HSDPA01)-R11	19" 300cd/m² SXGA panel PC w/ Pentium® M 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-19B-915-CM370/WT-R/1GB/ **(HSDPA01)-R11	19" 300cd/m² SXGA panel PC w/ Celeron® M 1.5GHz CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-19B-690E-AM2/WT-R/1GB **(HSDPA01)-R10	19" 300cd/m² SXGA panel PC w/ AMD Athlon™ 64 X2 Dual-Core 4800+ 2.5GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g/n wireless module, touch screen, Bluetooth, RoHS
AFL-19C-9652-CM550/WT-R/1GB/ **(HSDPA01)	19" 300cd/m² SXGA panel PC with Celeron® M 550 2.0GHz CPU,1GB DDR2 RAM,802.11 a/b/g/n wireless module,touch screen,Bluetooth, RoHS
AFL-19C-9652-T7500/WT-R/2GB/ **(HSDPA01)	19" 300cd/m² SXGA panel PC with Core™2 Dou T7500 2.2GHz CPU, 2GB DDR2 RAM,802.11 a/b/g/n wireless module,touch screen,Bluetooth, RoHS

▶ ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-19A-915	V	V	V	V	V	V	V	
AFL-19B-915	V	V	V	V	V	V	V	
AFL-19B-690	V	V	V	V	V	V	V	
AFL-19C-9652	V	V	V	V	V	V	V	

▶ Packing List

Item	P/N	Q'ty	Specifications
Screws	44013-030041-RS	4	M3;ø5mm
Power Adapter	63000-FSP0841ADC11118-RS 63000-FSP096AHB-RS 63000-FSP150AHA312-RS	1	90~264V;12V;84W (19A-915-10G) 90~264V;12V;96W (19B-915/19C-9652) 90~264V;12V;150W (19B-690)
Power Cable	32000-000002-RS	1	1750MM,European Standard
User's Manual CD ROM	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	

▶ Options

		AFL-19A-CX	AFL-19A-915-R11	AFL-19B-915-R11	AFL-19B-690	AFL-19C-9652
Panel Mounting Kit		AFLPK-19		AFLPK-19B		
Wall Mounting Kit		AFLWK-19				
Rack Mounting Kit		N/A				
ARM		ARM-11-RS/ARM-31-RS				
STAND		STAND-A19/STAN-B19/STAND-210-RS				
OS	**Win CE 5.0**	AFLCF-19-CX-CE	AFLCF-19-915-CE-R11		AFLCF-19-690-CE	AFLCF-19-9652-CE
	Win CE 6.0	AFLCF-19-CX-CE060	AFLCF-19-915-CE060-R11		AFLCF-19-690-CE060	AFLCF-19-9652-CE060
	Win XPE	AFLCF-19-CX-XPE	AFLCF-19-915-XPE-R11		AFLCF-15-690-XPE	AFLCF-19-9652-XPE
Hybrid Card Reader		AFLP-19AMSI-U		AFLP-19BMSI-U		
Magnetic Stripe Reader		AFLP-19AMSR-U		AFLP-19BMSR-U		
DC 12V Input UPS		AUPS-B10-R10		AUPS-B10-R10		
DV 9-36V Input UPS		AUPS-B20-R10		AUPS-B20-R10		

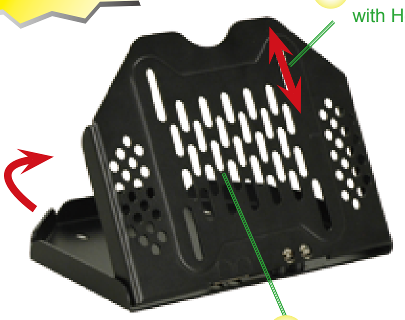
IEI Quick Mounting Technology

● V-Stand - VESA Standard multi-mounting stand

IEI patented multi-mounting V-Stand allows 0° to 90° adjustable Wall/Ceiling/Desk/Rear/Side mounting to meet diverse applications, mounting on kitchen, room and shelf.

Features:
- 0° to 90° adjustable hinge design allows comfortable viewing
- Standard VESA 75/100 Compliance
- Heat dissipation holes designed
- Compact size easy to use and mount anywhere

NEW !



A. VESA 75/100 Compliant with Height Adjustable

B. Designed holes help to dissipate the system heat

C. 0° to 90° adjustable hinge design

D. 5.6" ~ 12.1" AFOLUX PPC/Monitor Compatible

VSTAND-A07
(For 5.6"~7" AFL Series)

VSTAND-A10
(For 8.4"~10.4" AFL Series)

VSTAND-A12
(For 12.1" AFL Series)

The Benefits~

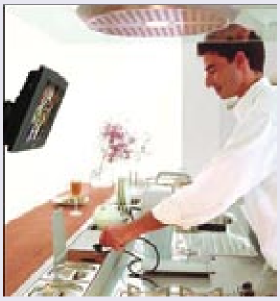
A. One fits all solution

V-Stand is designed around compact and tilt adjustable. Providing mobility and ergonomic comfort fits common wall mounting and ceiling mounting situations.

Wall Mounting

Ceiling Mounting

Entry-Master Systems



Back office POS system

Car PC

Medical Control Panel

B. 0° to 90° Excellent adjustability

you can change the angle of the stand from 0° to 90° to reach almost any point with ergonomic features for comfortable viewing.

No Hinge Limitation !

POS system

Self-ordering System

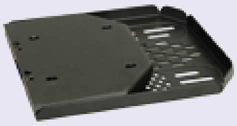
C. Space saving and easy to install

1: Tighten the screws in the rear of the AFOLUX PPC VESA mounting holes

2: Select the position to mount stand kit

3: Plug in the system to operate

Compact size provides mobility



● Wall Mount

Food ordering Kiosk on the wall enhance the efficiency

Requires no cut out in the wall surface. It mounts directly on the existing wall or desk.

Fastening the retention screw to secure the PPC

AFLWK-12 for 7"~12.1" PPC (VESA 75)

● Desktop Stand

Adjustable stand kit allow users to work in comfort, reducing neck and back strain from improperly positioned screens and easily movable to anywhere.

Easy Stand

STAND-A08 STAND-A12 Forward & Back Tilt

● Panel Mount

Requires a cut out in the wall surface. With four clamps to tighten the screws that pass through the panel mounting clamps

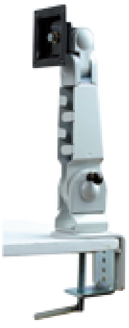
Easy installed in the KIOSK enclosure

Panel Mount Kit

● ARM

Adjustable monitor arms could be easily mounted on the wall, ceiling, and desk.

Easy cable organize !!



ARM-11-RS

ARM-31-RS

Mounting with adjustable arms to everywhere

Install Anywhere~

The AFOLUX PPC series with VESA standard mounting holes design, can be mounted virtually anywhere and in any forms including wall mounting, panel mounting, stand and arm options, giving you the flexibility to place the system in the best location.

Wall mount
Arm
MOUNT
Stand
IQ mounting
POS
Shop flow
Panel mount

Optional Bluetooth Peripherals

• Bluetooth Thermal Printer

Options

P/N	Description
AFLP-BTP	Mobile Thermal Printer, paper width 30-58mm, Bluetooth interface

Operational Characteristics		
Printing Method		Direct Thermal
Resolution		230 dpi (8 dots/mm)
Printing Speed		Up to 75mm/sec (2.95ips)
Max. Printing Width		48mm (1.89”)
Max. Printing Length		160mm (page mode)
Programming Language		ESC/POS Emulation with JCL commancds
Temp.		Operating -10°C to +50°C: Storage -20°C to +60°C
Humidity		Operating 10~90%RH non-condensing; Storage 10~90% RH non-condensing
Drop Resistance		Withstand multiple drops to concrete from 1.5 m height
Communication	Standard	Bluetooth V2.0 SPP Profile : Class 2 output power (Less than 4 dBm)
	Working Distance	Minimum 10 m , possible up to 30 m (depending on the actual working environment.)
RS232	Communication Speed	9,600/19,200/38,400/115,200 bps (Default 9,600 bps)
	Flow Control	Hardware (RTS/CTS), Software (Xon/Xoff)
Power		
Power Supply		Full-range 10.5V/2.3A Switching Power Adapter
Battery		Li-Ion Battery Pack (7.4V , 2200mAH)
Battery Charging time		Approx. 3-4 hours (full charging)
Physical Characteristics		
Dimension (W x D x H)		93mm x 115 mm x 48 mm
Weight		380 g (with battery pack)

• Cordless Scanner

Options

P/N	Description
AFLP-BBR	Bluetooth Bar Code Reader

PCS	Typical 0.45 (0.26mm Resolution)	
Resolution	Typical 4 mil,3.5 mil capture is possible	
Depth of Field	up to 12"	
Scan Engine	3648 pixel Long range linear DynaTrack imager with 300 scan/sec scanning speed	
Cordless communication	Bluetooth R 1.1 (SPP Profile), Minimum 10 meters	
Acknowledgement	Acknowledgement beeping for data transmission verification	
Readable Bar Code Symbologies	Codabar & NW-7	Code 128 & UCC/EAN-128
	Code 39 & Full ASCII Code 39	Code 11 & Code 93
	Code 32 & IATA	German ITF Postal Code
	UPC/EAN/JAN/CAN w/Addendum	Mainland China Postal Code
	Standard & Industrial 2 of 5	Telepen (Numeric & Full ASCII)
	Interleaved & Matrix 2 of 5	MSI/Plessey & UK/Plessey
Power Source	2AA size Rechargeable NiMH Battery Cell, minimum 2000 mAH Time of Recharge: 3-4 hours, Power adapter: 9V DC 2.7A	
Configuration Setup	Bar code programming manual	
	Windows utility - FuzzyScan PowerTool.NET	
Data Editing	Condensed DataWizard via bar code programming manual	
	Full-feature DataWizard via FuzzyScan PowerTool.NET	
Dimension	121mm x 74.3mm x 153.4mm, Weight 230g.	
Special Features	Built-in flash memory for Field Upgrade via FuzzyScan PowerTool.NET	
Smart Cradle	Charging/communication cradle with extra Battery Well	
	Legacy Output (PS/2 Keyboard, RS232 Serial, USB Keyboard, USB Serial)	

• BT Printer Combo Adapter

Options

P/N	Description
AFLP-BCA	Bluetooth Printer Combo Adapter

Product Name	BT Printer Combo Adapter
Model Name	BT-0260-V2
Standard	Bluetooth v2.0+EDR
Frequency Band	2.4~2.4835GHz unlicensed ISM band
Spread Spectrum	FHSS (Frequency Hopping Spread Spectrum)
Services supported	SPP and HCRP print services
RF Output Power	Class 1; 13dBm typical
Working distance	Up to 100m in free space
Sensitivity	<-88dBm at < 0.1% BER
I/O Interface	USB, IEEE-1284
LED indicator	Power / Bluetooth active /Printing active
	Operation temperature: 0 °C ~ + 60 °C
Environment	Storage temperature: -10 °C ~ +70 °C
	Humidity: 5 ~ 90% non-condensing
Dimension	76 (L) x 62(W) x 20(H) mm

• Bluetooth Serial Adapter

Options

P/N	Description
AFLP-BSA	Bluetooth Serial Adapter

Product Name	Bluetooth Serial Adapter
Model Name	BT-240-V2
Standard	Bluetooth v2.0+EDR
Frequency Band	2.4~2.4835GHz unlicensed ISM band
Spread Spectrum	FHSS (Frequency Hopping Spread Spectrum)
Services Supported	Series Port Profile (SPP)
Transfer Rate	1,200~ 460,800 Bits per second
RF Output Power	Class 1
Working Distance	Up to 100m in free space
Input Power	5V ~ 7.5V DC
I/O Interface	RS232 DTE/DCE
LED Indicators	Power / Bluetooth active /Mode active
Environment	Operation temperature: 0 °C ~ + 60 °C Storage temperature: -10 °C ~ +70 °C Humidity: 5 ~ 90% non-condensing
Size	76 (L) x 62(W) x 20(H) mm
Weight	51g

Bluetooth Serial Adapter

Options

P/N	Description
AFLP-BH	Bluetooth Stereo Headset

Specifications

Standard	Bluetooth v2.0+EDR
Bluetooth Profiles	A/V profile (AADP, AVRCP), Headset and Hands-Free profiles
Audio Function	1.CD-Quality, 44.1, 48KHz 16 bit stereo 2.Freq. Response: 20Hz ~ 20KHz 3.Codec: Sub-band codec (SBC) 4.Music sources: portable players, mobile phones, PC, and PDA
Frequency Band	2.4~2.4835GHz unlicensed ISM band
RF Output Power	Class 2
Sensitivity	<–82dBm at < 0.1% BER
Power	Lithium Polymer Battery
Multiple connection	One A/V link or one HF/HS connection
Audio I/O	3.5mm detachable stereo earpiece with microphoneone
Button	1 button for Power On/Off & music playing, 1 button for mobile, 1 buttons for Volume up & Fwd, 1 button for Volume down & Rev.
LED indicator	2 LED's. Blue LED for Power and A/V link, Red LED for HF/HS connection
Play Time	Up to 8 hours
Operating Temperature	0 ~ +60℃
Storage Temperature	-10 ~ +70℃
Humidity	5 ~ 90% (non-condensing)
Size	57.2 (L) x 28 (W) x 14.2 (H) mm
Weight	21.3g

Bluetooth Keyboard

Options

P/N	Description
AFLP-BK	Bluetooth Keyboard

Specifications

OS	Palm OS 5.0 and Microsft Pocket PC 4.20 and Windows XP
Key switch	Membrance Switches
Key life	5 million cycles
Keys Pitch	17mm
Key number	68 plus 6 hot keys
Dimension	260.0 x 120.0 x 32.0 mm (LxWxH)
Weight	350g
Power	3"AAA" Batteries
Standby mode	0.05mA
Operating mode	14.5mA
Frequency	2.4GHz ISM band
Range	Up to 10 meters
Profile	BLUETOOTH® wireless technology HID profile Ver. 1.0

Bluetooth Keypad

Options

P/N	Description
AFLP-BKP	Bluetooth Keypad

Specifications

Key switch	Rubber conductor structure
Key life	2 million cycles
Keys Pitch	19 mm
Key number	18/19 keys
Dimension	95*125*25 mm (L*W*H)
Weight	Keypad:140g
Power	2"AAA" Batteries
Standby mode	0.5mA
Operating mode	14.5mA
Frequency	2.4GHz ISM band

Bluetooth Mouse

Options

P/N	Description
AFLP-BM	Bluetooth Mouse

Specifications

- BLUETOOTH® wireless technology
- Worldwide Usage
- fully-integrated Human Interface Device (HID)
- Optimized of power
- Fits in your briefcase , easy to carry
- Full function keys
- Power saving system design
- Auto-reconnect
- No compliance issues
- Fully compliant with the version 1.1 BLUETOOTH ® wireless technology specification
- Supports the key BLUETOOTH® wireless technology version 1.2 features, including adaptive frequency hopping and fast connection

Optional POS Peripherals

• Barcode Reader

Ideal for scanning applications

Options

P/N	Description
AFLP-BRW01-U	Single-line, hand-held laser scanner, white color
AFLP-BRB01-U	Single-line, hand-held laser scanner, black color

Specifications

SCAN PERFORMANCE	
Depth of Scan Field	0 mm – 140 mm (0” – 5.5”) for 0.33 mm (13 mil) bar codes
Width of Scan Field	49 mm (1.9”) @ face; 195 mm (7.7”) @ 140 mm (5.5”)
Scan Speed	72 scan lines per second
Scan Pattern	Single scan line
Minimum Bar Width	0.102 mm (4 mil)
Print Contrast	35% minimum reflectance difference
Roll, Pitch, Yaw	42°, 68°, 52°
MECHANICAL	
Length	169 mm (6.7”)
Width Head	63 mm (2.5”)Handle: 40 mm (1.6”)
Height	Head: 35 mm (1.4”)Handle: 31 mm (1.2”)
Weight (w/o cable)	97 g (3.41 oz)
Termination	10 pin modular RJ45
Cable	Standard 1.5 m (5’) straight; optional 2.7 m (9’) coiled
ELECTRICAL	
Input Voltage	5 VDC + 0.25 V
Power	675 mW
Operating Current	135 mA @ 5 VDC
System Interface	USB

• Cash Drawer

- Heavy duty metal drawer with keylock
- 6PIN phone jack for EPSON printer compatible
- MTBF:1,000,000 operations

Options

P/N	Description
AFLP-CW01-12V	Cash Drawer, 12V DC input, 6-pin RJ-12 phone jack, white color
AFLP-CB01-12V	Cash Drawer, 12V DC input, 6-pin RJ-12 phone jack, black color

Drawer	Heavy duty metal drawer with keylock
Casing	Robust metal construction
Front Panel	Robust metal construction
Lock	3 positions
Bill Tray	Separate coin tray removable from the bill tray adjustable dividers for four or five compartments spring loaded bill clips
Coin Tray	Separate coin tray removable from the bill tray adjustable dividers for up to eight compartments
Slip Deposit Slot	Front access slot for check, credit card recipt, or any paper
Drawer Mode Solenoid Lock Manual	Open by drive signal to the solenoid Mechanically locks the drawer Open by key
I/O Interface	6-pin RJ-12 phone jack for EPSON printer compatible
Solenoid	12V for 6-pin RJ-12 phone jack interface
MTBF	1,000,000 operations
Color	Beige or black
Dimensions	410 (W) x 415 (L) x 100 (H) mm
Package	460 (W) x 470 (L) x 165 (H) mm
Net Weight	6.8 kg
Gross Weight	7.9 kg

• Customer Display

Options

P/N	Description
AFLP-CDB01	Customer Display, VFD, 5x7 dot matrix, RS232, black color
AFLP-CDW01	Customer Display, VFD, 5x7 dot matrix, RS232, white color

Customer Display	Vacuum Fluorescent Display Green
Display Pattern	5 x 7 dot matrix
Brightness	350~700 cd/m2
Character	95 Alphanumeric & 32 International Characters
Dot Size (X x Y)	0.86 mmx 1.2 mm
Font Size	5.25(W) x 9.3(H)
Character Number	20 x 2 for 5 x 7 font
Command	LD-220, EPSON POS D101, Aedex, UTC/S, UTC/P, ADM788, DSP800, CD5220, EMAX, LOGIC CONROL
Language	USA, France, Germany, U.K., Sweden, Denmark I & II, Italy, Spain, Norway, Japan (Katakana), Slavonic, Russian, etc...
Pass-through	Pass-through function is standard
Dimension (Panel) (W x D x H)	220 mm x 50 mm x 86 mm
Dimension (Support)	Two supports per package, per support : 130mm130mm x 2 = 260 mm (H)x 33 mm (dia)
Dimension (base)	217 mm (W) x 106 mm (D) x 20 mm (H)
Viewing Angle	Max. 90°
Horizontal Rotation	Max. 360°
Weight	About 0.55 Kg
Interface	RS-232

• Thermal Printer

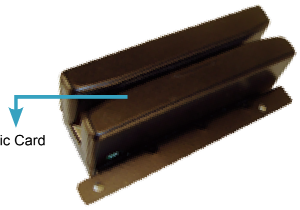
Options

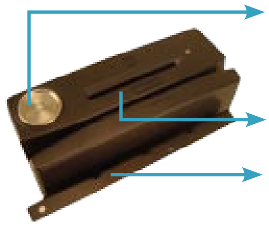
P/N	Description
AFLP-TPB01	Thermal Printer, 24VDC, RS232, thermal line printing, balck color
AFLP-TPW01	Thermal Printer, 24VDC, RS232, thermal line printing, white color

Print method	Direct thermal line printing
Print Font Column capacity(columns) Character set Bar code	9 x 17 / 12 x 24 64/48 Columns 95 Alphanumeric; 32 International; 128x7 graphics Traditional/Simplified Chinese, Japanese UPC-A, UPC-E, JAN8 (EAN8), JAN13 (EAN13), CODE 39, CODE 93, CODE 128, CODABAR.
Print Speed	180mm / sec (60 lps) max.
Data Buffer	96 Kbytes or 2k bytes
Interface	RS 232C (32K)
Paper Dimensions (mm)	Thermal roll paper: 79.5 +/- 0.5 x dia 83.0 mm
Paper Thickness (mm)	0.06 to 0.12
Power	24VDC +/- 7%
Current consumption	Approx 2.0A (mean)
Overall dimensions	146(W) x 197(D) x 145(H) mm
Weight	Approx 1.8 Kg
EMI Standards	CE, FCC

Optional POS Peripherals

• MSR and Smart Card Reader


Magnetic Card
Reader


Smart Card
Reader
Magnetic Card
Reader

iButton
The iButton can be used to store cash for small transactions, or as an electronic asset tag to store information needed to keep track of valuable capital equipment.

P/N	AFLP-12BMSR-U / AFLP-17AMSR-U	AFLP-12BMSI-U / AFLP-17AMSI-U
General	90 mm Magnetic Stripe Reader Programming: By Software Download Program Card Standard: ANSI , ISO , ABA Track Read: ISO 1,2,3 (IATA,ABA,THRIFT/MINTS) , JISII100-1000mm/sec	(1) Magnetic Card: ISO 7811, AAMVA, DMV, JIS II (2) Smart Card: ISO 7816, EMV (3) Dallas iButton
Electrical	Voltage:DC+5V, +/-5%Reading Inicator:Beeper	Voltage: DC+5V,+/-5%Reading Inicator:Beeper
Environment	Operating Temperature: 0°C to 40°C Relative Humidity: 20% to 85 % (Non-condensing)	Operating Temperature: -10°C to 55°C Relative Humidity: 10% to 90 % (Non-condensing)
Physical	Cable: Straight 2.5ft / Weight: Approx.61g	Cable: Straight 2.5ft / Weight: Approx.60g
Interface	USB	USB

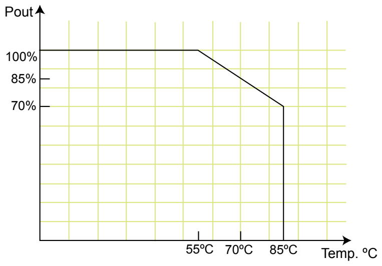
Optional DC/DC Converter Module

IDD-930160-KIT

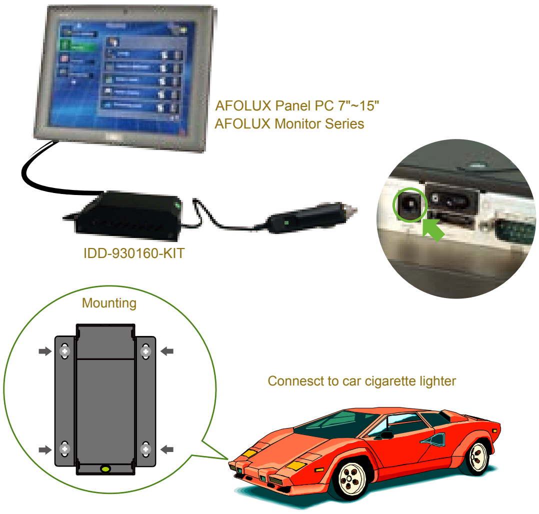
60 W DC/DC Converter Module

Specifications

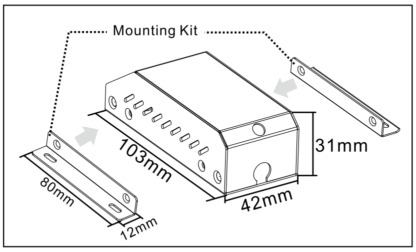
- Input voltage: 9-30 VDC
- Input current:Max. 8.2 A at 9 VDC
- Output: 12 V@5 A
- Max. total output: 60W
- Performance characteristics:
  Noise and ripple:<120 mV
  Line regulation: <2.5%
  Load regulation: <2.5%
- Transient toggle rate: 250 Hz (50% duty ratio)
- Transient current step:
  From 0% to 50% and 50% to 100% of max current
- Efficiency: typ. 95% (Vin=12 V, 80% of full load)
- Dimensions: 42 mm x 103 mm x 31 mm
- Mounting kit: 12 mm x 80 mm
- Cable length: 180 cm
- Operating temperature: -10°C~55°C
- Load down protection



Typical Applications


AFOLUX Panel PC 7"~15"
AFOLUX Monitor Series
IDD-930160-KIT
Mounting
Connesct to car cigarette lighter

Dimensions (Millimeters)


Mounting Kit
103mm
31mm
42mm
80mm
12mm

Packing Information

- 1 x IDD-930160-KIT-R10
- 1 x Mounting kit
- 1 x Screw kit
- 1 x Anti-slip strip
- 1 x Utility CD

Ordering Information

Part No.	Description
IDD-930160-KIT-R10	60 W DC/DC 9-30 VDC input vehicle power adapter

AFOLUX Dedicated Applications

internet access @ jervis

KIOSK Solution

Your Best Choice for KIOSK Solution

The AFL-315A/317A equipped with a 15" or 17" TFT color LCD, it features high performance, rich connectors, and all-in-one system design. Because of its multi functional design, the AFL-315A/317A meets demands from multimedia applications and interactive KIOSK areas that require flexible connects to peripherals and more powerful computing performance.

AFL-315AB-945
AFL-317AB-945

AFL-315AW-945
AFL-317AW-945

POS Solution

Help you Drive Business Success

IEI AFOLUX fanless LXPOS touch panels are ideal in applications where cost, rugged design, and limited space are top criteria, especially for harsh retail or hospitality environments.

AFL-15A-LXPOS

AFL-12B-LXPOS

X86-based Digital Signage Solution

X86-based Digital Signage Platform Series

AFL-690 touch panel PCs with a ATI graphic core and dual core CPU is an ideal high-performance digital signage solution for high-end graphic and video applications.

AFL-15B/17B/19B-690

Access Control Terminal Solution

8.4” SVGA Intelligent Access Control Terminal

The x86 architecture are more flexible than the traditional RISC-based control terminals, enables system developers to integrate sophisticated time attendance, access control.

ACT-08A

AFL-315A / AFL-317A
KIOSK Panel PC

AFOLUX All-in-One Touch Panel PC Series

Leading To the Self-Service World

redbox
DVD
RENTALS
One fits All!
intel
Core 2 Duo
inside
intel
945G
EXPRESS CHIPSET
Go Back
Continue

AFL-315AB / AFL-317AB

AFL-315AW / AFL-317AW

15/17 inch Core™2 Duo Industrial KIOSK Panel PC

- **Sophisticated high reflection surface**
  Smooth and easy cleaning surface easily fits any kind of KIOSK enclosure
- **All-in-one highly integrated design**
  Multiple functions and connectors built in the one unit system fits all self service solutions and not only decreases maintenance time but also saves the space considerably
- **Versatile mounting solutions and back IO design allows installed in minutes**
  Faster installation into device such as KIOSK and ATM
- **IP 64 front panel compliance**
  System operation in a dusty or wet rigorous environment

- **KIOSK Ready System**
- **High Performance Core™2 Duo Platform**
- **One Solution fits All**

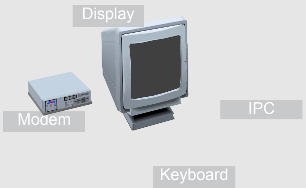
KIOSK Ready System

Easy to Installation

- ✓ **Light Weight**
  10.2 kg Only
- ✓ **Slim Type**
  82 mm ultra slim design
- ✓ **Smart Mechanism**
  Back IO design allows easy cables arrangement and installation

All-in-One System

Typical KIOSK System



Seperate peripherals occupy the space and produce additainal purchase of proprietary cables for specific devices.

AFOLUX KIOSK PPC

Designed for style, performance, and state-to-art built in functions packaging

- ✓ Space saving
- ✓ Cost saving
- ✓ Without peripherals searching time
- ✓ Without cables Installation

AFL-315/AFL-317 KIOSK Ready System

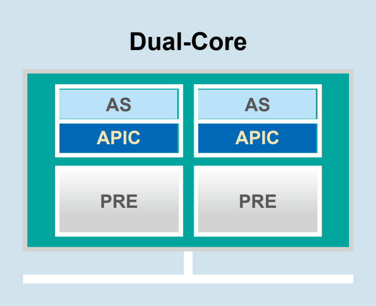
All-in-one sysem with sophisticated appearance Ideal for third-party enclosure

Powerful Computing

Manufactured with open system design, IEI AFOLUX KIOSK panel PC offers flexible configuration in space-saving form factor. It comes with:

- 15 inch 1024 x 768(XGA), 17 inch 1280 x 1024(SXGA) active matrix LCD touchscreen interface
- Powered by 1.8 GHz Intel® Dual Core Desktop Processor with 533/800/1066 MHz FSB and 512 KB cache, product provides DDR2 1GB of memory, expandable to 4GB
- Optional WIN CE 5.0, WIN CE 6.0 and WIN XPE supported

For kiosk application, powerful computing is strongly required to deliver high computing power and multi-task performance.



TDP 50%

Process	CPU Number	clock speed	FSB	L2 Cache	TDP
Core™2 Duo	E6400	2.13G	1066	2MB	65W
	E6320	1.86G		4MB	
	E6300	1.86G		2MB	
	E4400	2G	800	2MB	
	E4300	1.8G		2MB	
Pentium® Dual Core	E2160	1.8G		1MB	
Celeron®	440	2.00G	800	512K	35W
	430	1.8G			
	420	1.6G			
Pentium® Ex	965	3.73G	1066	2X2M	130W
	955	3.46G			130W
Pentium® D	960	3.6G	800		130W
	950	3.4G			130W

AS = Architecture State (registers, flags, timestamp counter, etc.)
APIC = Advanced Programmable Interrupt Controller
PER = Processor Execution Resources (execution units, instruction decode, etc.)

Higher Performance, More Energy-Efficiency

Bluetooth®

A preinstalled Bluetooth module communicates with a wide range of electronic products from PDAs, cellular phones and printers, to barcode readers.

Wi Fi

The integrated PIFA antenna on the AFOLUX ensures an uninterrupted wireless connection. PIFA type antennas can receive high-quality, uniform signals in any location from all directions without any signal degradation or impedance and are the most efficient .

Strong Multimedia

AFL-315A / 317A provides outstanding image quality and high performance for immersive multimedia play. Users will experience revolutionary performance, unbelievable system responsiveness from the following enhanced multimedia features.

- Built-in 0.3 mega-pixel webcam with digital microphone (AFL-317A)

2MP AF Camera

- Built-in 2.0 mega-pixel webcam with auto focus (AFL-315A)

IP-64 Speaker

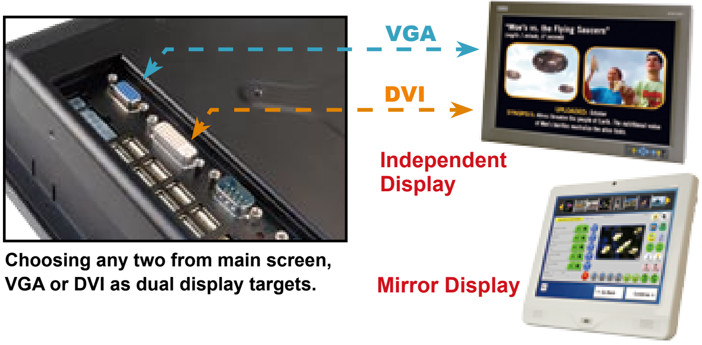
- Built-in two 1.5W IP 64 water proof stereo speakers

External Audio

- External audio
(Line in, Line out , MIC in supported)

● Dual Display

Equipped with VGA and DVI out interfaces allow second display connection to extend or duplicate your content, whether in advertising, inform or interact.



Choosing any two from main screen, VGA or DVI as dual display targets.

Interview KIOSK

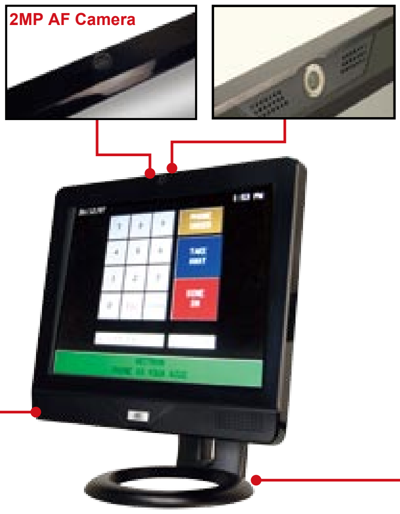
Check-in KIOSK in the airport

● Multimedia Feature

The AFL-315A / 317A built-in CMOS camera module is specially designed and fabricated for KIOSK applications.
The camera module combines a UXGA CMOS sensor with integrated lens to deliver high performance images quality. It has a USB2.0 High Speed interface, and has the capability of transferring uncompressed data in UXGA mode at 15 fps and VGA mode at 30 fps.

● AFL-315A

- XGA resolution image sensor
- Video resolution:
  1600x1200, 1280x1024, 1024x768, 800x600, 640x480, 352x288, 320x240, 176x144, 160x120.
- Frame rate:
  1600x1200@ 15 fps max, 640x480@ 30fps max.
- Max. image transfer rate:
  2M @ MJPG 15fps; 1.3M @ MJPG 15fps;
  VGA @ MJPG 30fps
- Video format:
  YUY2' MJPG' I240
- Auto white balance
- Auto exposure
- Auto gain control
- Auto Focus@ 10cm ~ infinity..
- High speed USB2.0 interface
- GA compliant



IP-64 Speaker

● AFL-317A

- VGA resolution image sensor
- Video resolution: 640x480, 352x288, 320x240, 176x144, 160x120.
- Frame rate: 640x480@ 30fps max.
- Auto white balance
- Auto exposure
- Auto compensation
- Focus range of 25 cm to Infinity
- Flip Control Option
- High speed USB2.0 interface
- Storage Format of Image: AVI
- Storage Format of Photograph: BMP, JPEG
- Digital Microphone x 2

HR Employees/Job Applications Kiosk

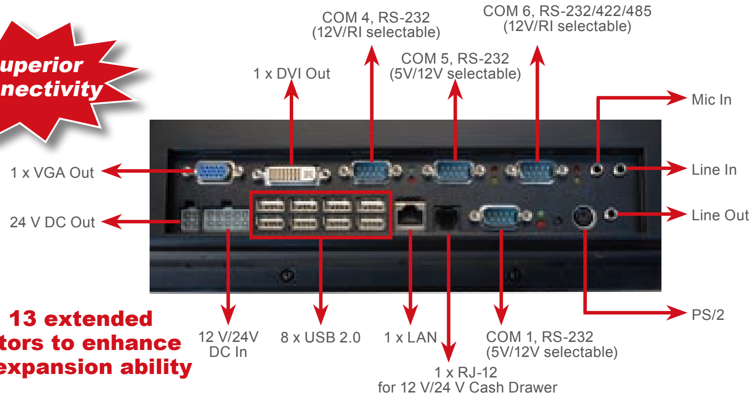
Desk top KIOSK for employee fill out online forms and interview with managers

Adjustable Stand (STAND-B19)

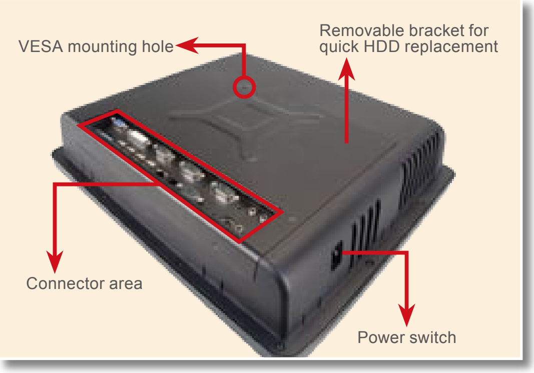
Rich Connectivity

AFL-315A/317A with complete connectivity has the ability to do the multiple KIOSK applications.

Superior Connectivity

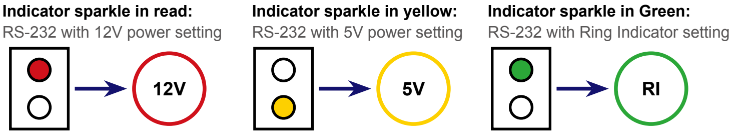

COM 4, RS-232
(12V/RI selectable)
COM 6, RS-232/422/485
(12V/RI selectable)
1 x DVI Out
COM 5, RS-232
(5V/12V selectable)
Mic In
1 x VGA Out
Line In
24 V DC Out
Line Out
PS/2
12 V/24V
DC In
8 x USB 2.0
1 x LAN
COM 1, RS-232
(5V/12V selectable)
1 x RJ-12
for 12 V/24 V Cash Drawer

Total 13 extended connectors to enhance system expansion ability


VESA mounting hole
Removable bracket for
quick HDD replacement
Connector area
Power switch

• Four RS-232 with selectable 5V/12V/RI to connect diverse

LED indicator for identifying power status selected by jumper (Red:12V/Yellow:5V/Green: RI)

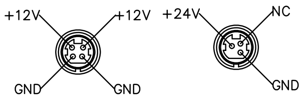


Indicator sparkle in read:
RS-232 with 12V power setting

Indicator sparkle in yellow:
RS-232 with 5V power setting

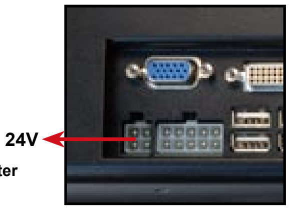
Indicator sparkle in Green:
RS-232 with Ring Indicator setting

• Power supply provides additional 12V and 24V power supply for peripheral power requirement


+12V
+12V
GND
GND
+24V
NC
GND

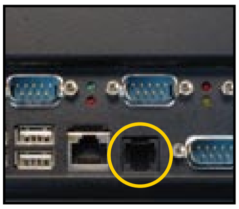
Extra 24V power Connector for peripheral power requirement

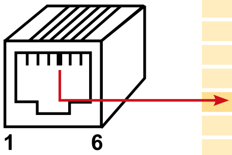
24V Thermal Printer



• Cash drawer port via RJ-12 with 12 V/24 V power

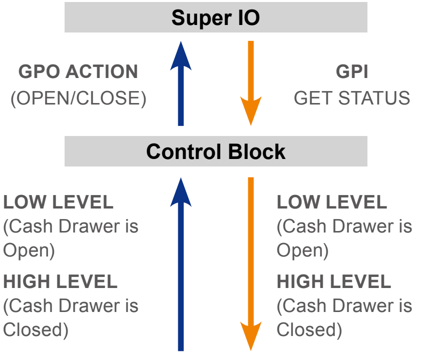
Equipped with a digital I/O RJ-12 12 V/24 V port that provides extension for peripherals such as a cash drawer device.





Pin	Assignment
1	Ground
2	CASH_1 (Digital Out Programmable)
3	Digital IN
4	+12 V / +24 V (Jumper Selection)
5	NC
6	Ground

Digital I/O control diagram



Super IO

GPO ACTION
(OPEN/CLOSE)

GPI
GET STATUS

Control Block

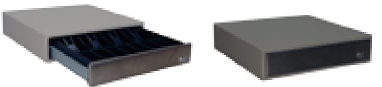
LOW LEVEL
(Cash Drawer is Open)

HIGH LEVEL
(Cash Drawer is Closed)

LOW LEVEL
(Cash Drawer is Open)

HIGH LEVEL
(Cash Drawer is Closed)

Cash Drawer



Cash Drawer Control

IEI ISMM cash drawer status monitoring

IEI also provides a quick and easy tool (ISMM API) to develop specific application for your system.

INTELLIGENT SYSTEM MANAGEMENT MODULE

Free API

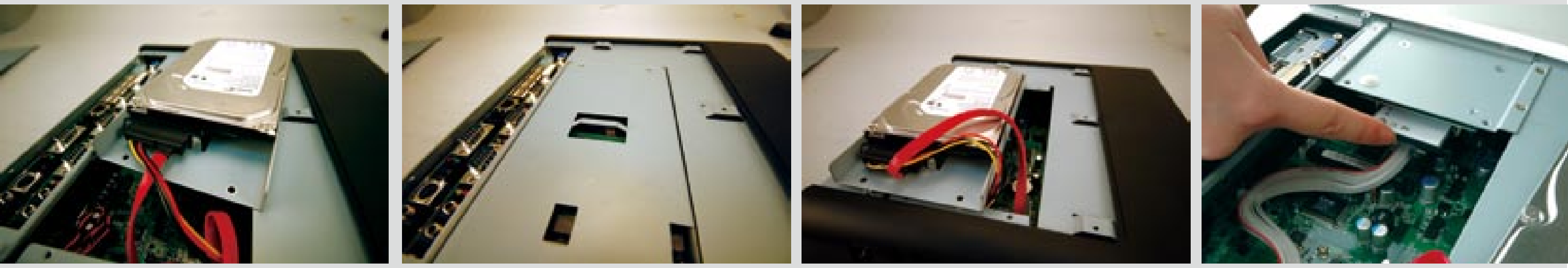
+

Cash Drawer controlled by Digital IO **=** **Application Program**

Self-development system program

● Easy Access Drive Bay

Easy access storage drive bay design for quick storage installation without any trouble



Easy HDD and CF Card Installation

● Specifications

AFL-315AB-945
AFL-317AB-945
(Black color)

AFL-315AW-945
AFL-317AW-945
(White color)

LCD Size	15”	17”
Max Resolution	1024 x 768	1280 x 1024
Contrast Ratio	700:1	800:1
LCD Color	262K	16.7M
Pixel Pitch (mm)	0.297(H) x 0.297(V)	0.264(H) x 0.264(V)
Viewing Angle (H-V)	140(H) / 125(V)	160(H) / 160(V)
Backlight MTBF	50,000 hrs	
SBC Model	AFLMB-9454	
CPU	Intel® Dual Core Desktop Processor(E2160) 1.8GHz or others	
Chipset	Intel® 945G	
Memory	DDR2 1GB support up to 4GB	
I/O Ports and Switches	1 x 12V/24V DC Input Jack	
	1 x PS/2	
	3 x RS-232 COM port	
	1 x RS-232/422/485 COM port	
	1 x RJ-12, 12V/24V Cash Drawer Port	
	1 x RJ-45 for GbE LAN	
	8 x USB 2.0	
	1 x Power Switch	
	1 x Reset Button	
	1 x DVI port	
	1 x VGA port	
	1 x Line in, 1 x Line out, 1 x MIC in	
	1 x 24V DC Output Jack	

Brightness (cd/m²)	350	300
SSD	CF Type II	
Watchdog Timer	Software Programmable supports 1~255 sec. System reset	
Audio	AMP 1.5W+AMP 1.5W (Built-in Stereo Speakers)	
Camera	2 Mega pixel with Autofocus	300K pixel with Digital Microphone
Expansion	1 x PCIe mini card	
	1 x Mini PCI Interface (Wireless LAN 802.11 a/b/g Module)	
	1 x Bluetooth module (USB interface, Bluetooth V2.0)	
HDD Drive Bay	1 x 3.5” SATA HDD bay or 1 x 2.5” SATA HDD bay	
ODD Drive Bay	N/A	1 x slim type ODD bay
Construction Material	ABS + PC Plastic front frame	
Mounting	Panel, Wall, Stand and Arm (VESA 100mm x 100mm)	
Front Panel Color	Black or White	
Dimension (WxHxD) (mm)	363 x 322 x 80	400 x 380 x 107
Operation Temperature (°C)	0°C~45°C	
Storate Temperature (°C)	-20°C~80°C	
Net Weight	10.2 kg	13.4 kg
IP Level (front panel)	IP 64	
EMC	CE, FCC, CCC	
Safety	UL, CB	
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)	
Power Adapter	ACE-D825AH: 252W	
	Input: 90VAC~264VAC @ 50/60Hz	
	Output:12VDC at 15A, 24VDC at 3A	
Power Consumption	102 W	127 w

● Options

Options	Model name
Panel mount kit	AFLPK-315A / AFLPK-317A
Wall mount kit	AFLWK-19
Stand	STAND-A19/STAND-B19
	STAND-210-RS
ARM	ARM-11-RS/ARM-31-RS

● Packing List

- 1 x Power Cable
- 1 x Utility CD
- 1 x Screw Kit
- 1 x Touch Pen
- 1 x 252 W PSU

● Ordering Information

AFL-315AB-945-E2160/WT-R/1GB/160G	15" 350**cd/m²** XGA panel PC w/ Dual-Core E2160 1.8GHz CPU,1GB DDR2 RAM, 160G SATA HDD,802.11 a/b/g wireless module, touch screen, 2MP Camera, Bluetooth, black color
AFL-315AW-945-E2160/WT-R/1GB/160G	15" 350**cd/m²** XGA panel PC w/ Dual-Core E2160 1.8GHz CPU,1GB DDR2 RAM, 160G SATA HDD,802.11 a/b/g wireless module, touch screen, 2MP Camera, Bluetooth, white color
AFL-317AB-945-E2160/WT-R/1GB-R10	17" 300cd/m² SXGA panel PC w/ Dual-Core E2160 1.8GHz CPU,1GB DDR2 RAM, 802.11 a/b/g wireless module,touch screen, 300K pixel Camera with microphone, Bluetooth,black color
AFL-317AW-945-E2160/WT-R/1GB-R10	17" 300cd/m² SXGA panel PC w/ Dual-Core E2160 1.8GHz CPU,1GB DDR2 RAM, 802.11 a/b/g wireless module,touch screen, 300K pixel Camera with microphone, Bluetooth,white color

PLEASE SCAN

AFL-12B-LXPOS

AFL-15A-LXPOS Panel PC

Help you Drive Business Success

IEI AFOLUX POS touch panel PCs are ideal in applications where cost, rugged design, and limited space are top criteria, especially for harsh retail or hospitality environments.

Fanless POS PC

Fanless

Watchdog Timer

RS-232 /422/485

iSMM

IP 64

Wireless 802.11 b/g

AT/ATX

Integrated audio

TouchScreen

Flexible Combination for Diverse Applications

IEI AFOLUX POS Panel PCs are designed for small chain stores, local restaurant operators who appreciate the advantages of using simple operating POS system.

A. Wall Mount POS

Self Ordering Solution

Wall mounting capability economizes on space for users who don't have any additional room to build more checkouts. The wall mounted POS that enable customers to order by themselves also reduces queues during the peak periods.

B. Flexible Pay Stations

Vehicle POS Station

Mobile POS systems enable large stores, theme parks, multiplexes and other large entertainment venues to quickly setup temporary pay stations at different locations during peak periods and during special promotions. All transactions can be easily monitored by a central database and all credit card transactions easily and securely authorized. Wireless connectivity simplifies the process and reduces the overall setup time.

C. Back Office POS

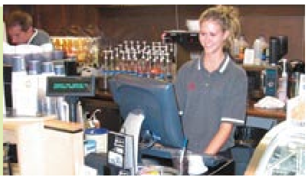
Kitchen POS

A POS installed in the kitchen enables chefs to receive and print hand written instructions from a waiter in the front end of the restaurant.

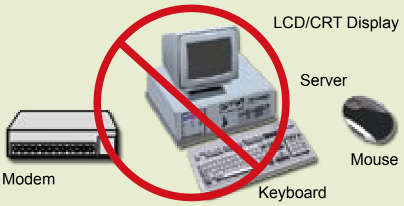
D. Desk Top POS

All-in-One POS System

The AFL POS all in one system is a flexible system that saves counter space and comes with a diverse range of peripherals for space sensitive applications and environments



Space-Saving All-in-One System


LCD/CRT Display
Server
Mouse
Modem
Keyboard

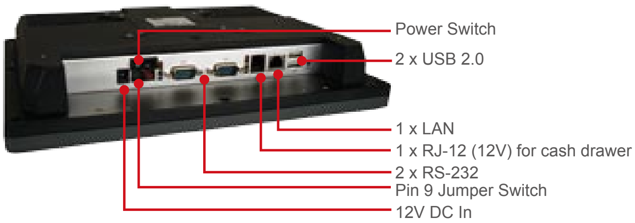
Counter Space Saving!
Built-in Wireless Module
Integrated Touch Panel
Removable Base

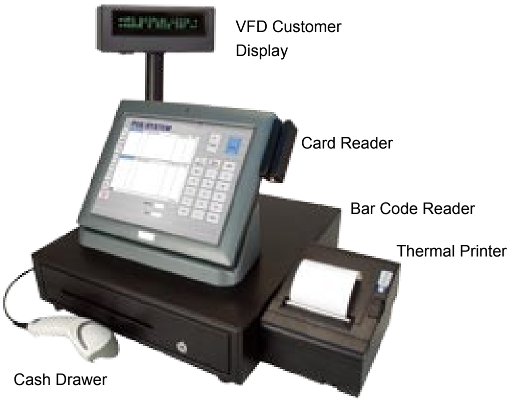
	General POS system with separate parts occupy the space	AFOLUX POS Panel PC System
Building Cost	High	Low
Maintenance	Complicated	Easy
Appearance	A POS system with lots of cables and peripherals	Simple, slim and luxurious
Space Occupy	High	Low

WIN!

Flexible in peripheral connection

The AFOLUX POS PC supports full I/O and is equipped with various connectors for different peripherals.

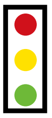

Power Switch
2 x USB 2.0
1 x LAN
1 x RJ-12 (12V) for cash drawer
2 x RS-232
Pin 9 Jumper Switch
12V DC In


VFD Customer Display
Card Reader
Bar Code Reader
Thermal Printer
Cash Drawer

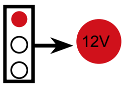
1. Two RS-232 with selectable RI/5V/12V

Convenient Jumper Setting in front of the rear

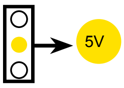
Since the peripherals require a +5V/+12VDC RS-232 connection, set the corresponding I/O COM port voltage output on pin-9 to +5V/+12V through the switch in front of the rear.



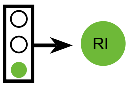
LED Indicator for identifying power selected by jumper



LED is red:
The pin 9 signal on the RS-232 connector is set as 12 V



LED is yellow
The pin 9 signal on the RS-232 connector is set as 5 V

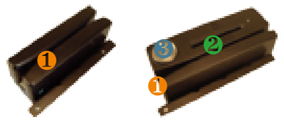


LED is green:
The pin 9 signal on the RS-232 connector is set as RI (ring indicator)

2. Two USB ports for peripheral connectivity

Optional MSR and MSI

❶ Magnetic Card Reader
❷ Smart Card Reader
❸ Optional iButton



❶ **Magnetic Card Reader**
- Credit card data collection
- Membership card

❷ **Smart Card Reader**
- Storage Card

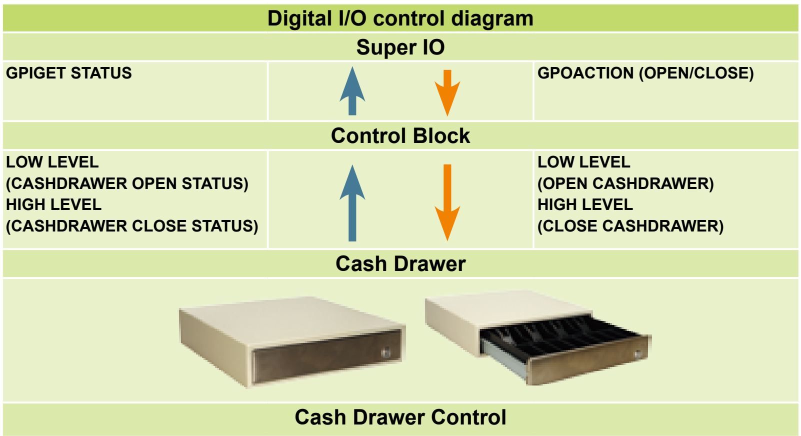
❸ iButton

Each iButton.has a unique serial number and it is unalterable serial number. It can be used as a key or identifier for
- Access controls for POS terminal
- eCash transactions

The iButton can be used to store cash for small transactions

3. One cash drawer port via RJ-12 with 12 V power

The AFOLUX POS is equipped with a digital I/O RJ-12 12 V port that provides extension for peripherals such as a cash drawer devices.



Digital I/O control diagram

Super IO

GPIGET STATUS

GPOACTION (OPEN/CLOSE)

Control Block

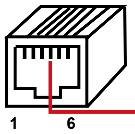
LOW LEVEL
(CASHDRAWER OPEN STATUS)
HIGH LEVEL
(CASHDRAWER CLOSE STATUS)

LOW LEVEL
(OPEN CASHDRAWER)
HIGH LEVEL
(CLOSE CASHDRAWER)

Cash Drawer

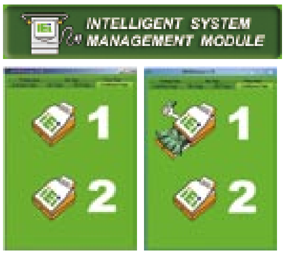
Cash Drawer Control

Cash Drawer RJ-12 Pin Assignments



Pin	Assignment
1	Ground
2	CASH_1 (Digital Out Programmable)
3	Digital IN
4	+12 V
5	NC
6	Ground

IEI ISMM cash drawer status monitoring



Free API Support

IEI also provides a quick and easy tool to develop cash drawer application for POS program

Seamless Connection

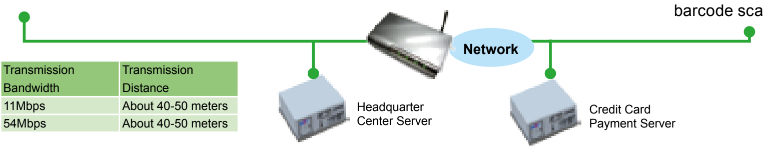
Built-in 802.11 b/g wireless module conduct data transmission wherever you are

The integrated PIFA antenna on the AFOLUX POS panel PC ensures uninterrupted wireless connection in retail stores and restaurants. The wireless option reduces cable costs and enables more devices to be connected to transmit transaction or inventory data in real time.

Restaurant
Handheld computers/PDAs to take order

Transportation
Mobile Coffee Shop

Retail
Real-time inventory checking with handheld barcode scanner



	Transmission Bandwidth	Transmission Distance
802.11b	11Mbps	About 40-50 meters
802.11g	54Mbps	About 40-50 meters

Reliable Fanless POS Panel PC for Rigorous Environments

Reliable Fanless System

The AMD Geode™ LX 800 processor generates less heat. AFOLUX POS models with AMD Geode™ LX 800 are high-performance fanless platforms.

Benefits
- Less down time
- Extended operational lives as they are not exposed to overheating problems caused by fan failures
- Reduce maintenance costs

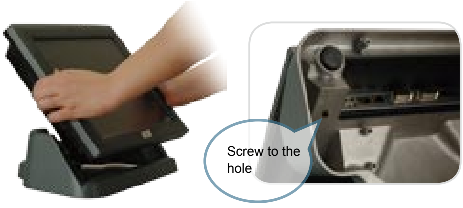
● Accessory

1. All-in-one design ideal for public applications

STAND-POS12
(For AFL-12B-LXPOS)

STAND-POS15
(For AFL-15A-LXPOS)

2. Easy Remove and Installation Design

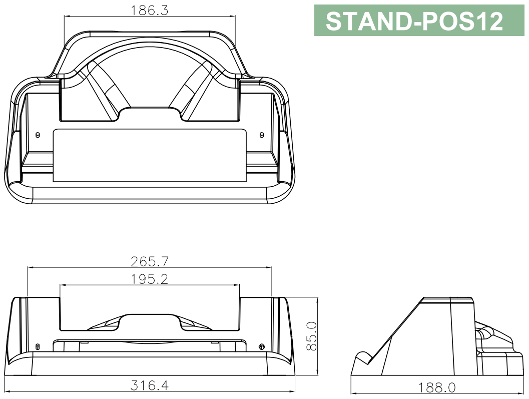


Screw to the hole

3. Easily arrange the cables inside the stand

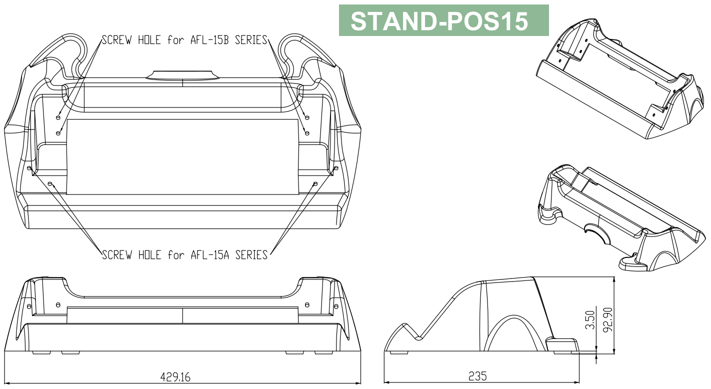
● Dimensions

STAND-POS12



186.3
265.7
195.2
85.0
316.4
188.0

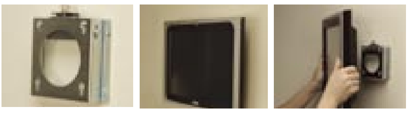
STAND-POS15



SCREW HOLE for AFL-15B SERIES
SCREW HOLE for AFL-15A SERIES
429.16
235
35.0
92.90

● IQ Mount

Wall Mount Kits



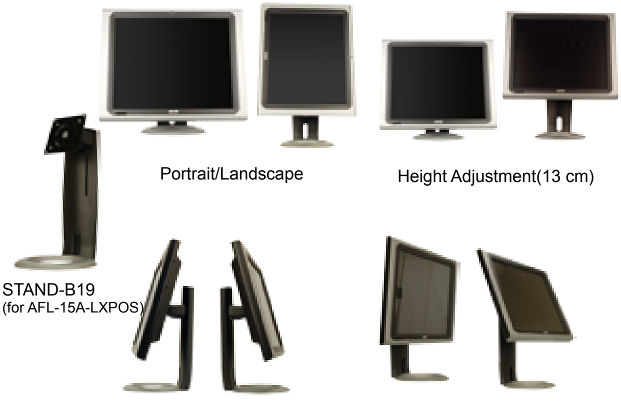
Easy Stand

STAND-A12
(for AFL-12B-LXPOS)

STAND-A19
(for AFL-15A-LXPOS)

Forward & Back Tilt

Comfortable Stand



Portrait/Landscape

Height Adjustment(13 cm)

STAND-B19
(for AFL-15A-LXPOS)

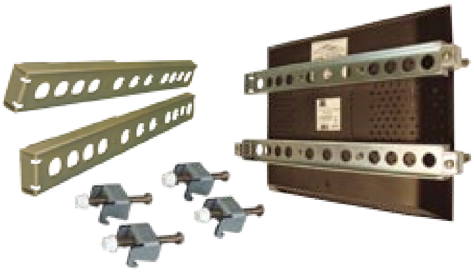
Right/Left Pan (270°)

Forward & Back Tilt(+25°/-5°)

● Panel Mount

AFLPK-12

AFLPK-15



● Specifications

Model Name	AFL-12B-LXPOS	AFL-15A-LXPOS
Mainboard	AFLMB-LXPOS	
CPU	AMD Geode™ LX 800 (500MHz)	
Chipset	AMD Geode™ LX 800+ AMD Geode™ CS5536	
Memory	Supports one 1GB (maximum)333MHz or 400MHz SO-DIMM	
LCD/Touch Panel		
LCD Size	12.1“ TFT LCD	15“ TFT LCD
Max Resolution	800 x 600 (1024 x 768)	1024 x 768
Brightness (cd/m²)	350 (450)	350
Contrast Ratio	500:1 (700:1)	700:1
LCD Color	262K	262K
Pixel Pitch (mm)	0.3075(H) x 0.3075(V) (0.240(H) x 0.240 (V))	0.297(H) x 0.297(V)
Viewing Angle (H-V)	140(H) / 120(V) (160(H) / 160(V))	140(H) / 125(V)
Backlight MTBF	50000 hrs	50000 hrs
Touch Screen Type	Resistive Type 5-Wire	
Metal Housing		
Housing Material	ABS + PC Plastic front frame	
IP Level	IP 64 in front	
Front Panel Color	Gray	Silver
Storage		
HDD	1 x 2.5" HDD bay With ANTI-SHOCK	
SSD	CF Type II	
Expansion		
Mini-PCI Slot	1x mini-PCI slot (for build-in wireless 802.11 b/g module)	
External I/O Ports		
USB	2 x USB 2.0	
Serial/COM	2 x RS-232 COM Port (pin 9 with RI , 5V or 12V switch selectable) With LED Indicator (12V--Red / 5V--Yellow / RI--Green)	
LAN (10/100Mbps)	1 x RJ-45	
Cash Drawer Port	1 x RJ-12 (12V) for Cash Drawer	
DC Jack	1 x DC Jack	
	1 x Power Switch	
	1 x Reset Button	
POWER LED	1	
Audio		
Built-in Speaker	AMP 1.5W+AMP 1.5W	
Power		
Power Adapter	Power: 48W	Power: 60W
	Input: 90VAC~264VAC @ 50/60Hz	Input: 90VAC~264VAC @ 50/60Hz
	Output:12VDC	Output:12VDC
Peripheral		
MSR	Magnetic Card Reader (USB interface) (optional)	
MSI	Magnetic Card, Smart Card,Dallas iButton (USB interface) (optional)	
Cash Drawer	RJ-12 (12VDC) interface (optional)	
Bar Code Reader	Hand-held Laser Scanner (USB interface) (optional)	
Environment		
EMC and Safety	CE,FCC,CCC,UL,CB	
Operating Temperature	0°C~50°C	
Storage Temperature	-20°C~60°C	
Dimension (WxHxD) (mm)	304 x 246 x 49.5	394 x 309 x 61
Mounting	Panel, Wall, Stand VESA 75mm x 75mm / 100 x 100mm	Panel, Wall, Stand VESA 100 x 100mm
Net Weight	1.8 Kg	3.2 Kg
Power Consumption	29W	38W
OS Support	Windows XPE, Windows CE 5.0 or Windows CE 6.0 (optional)	
Watchdog Timer	Software programmable supports 1~255 sec. System reset	

Options

	AFL-12B-LXPOS	AFL-15A-LXPOS
POS Stand	STAND-POS12	STAND-POS15
LCD Stand	STAND-A12	STAND-A19 / STAND-B19
Wall Mount Kit	AFLWK-19	
Panel Mounting Kit	AFLPK-12	AFLPK-15
Cash Drawer	AFLP-CW01-12V (RJ-12 interface with white color) AFLP-CB01-12V (RJ-12 interface with black color)	
Bar Code Reader	AFLP-BRW01-U (USB interface with white color) AFLP-BRB01-U (USB interface with black color)	
MSR (Magnetic Stripe Reader)	AFLP-12BMSI-U	AFLP-17AMSR-U
MSI (Magnetic Card/Smart Card/Dallas iButton)	AFLP-12BMSI-U	AFLP-17AMSI-U
Thermal Printer	AFLP-TPW01 (RS-232 interface with white color) AFLP-TPB01 (RS-232 interface with black color)	
Customer Display	AFLP-CDW01 (RS-232 interface with white color) AFLP-CDB01 (RS-232 interface with black color)	
OS: Windows® CE 5.0	AFLCF-12-LXPOS-CE (128MB CF Card)	AFLCF-15-LXPOS-CE (128MB CF Card)
OS: Windows® CE 6.0	AFLCF-12-LXPOS-CE060 (128MB CF Card)	AFLCF-15-LXPOS-CE060 (128MB CF Card)
OS: Windows® XPE	AFLCF-12-LXPOS-XPE (1GB CF Card)	AFLCF-15-LXPOS-XPE (1GB CF Card)

Ordering Information

Model	Description
AFL-12BS-LXPOS/WT-R/256MB	12.1" 350 cd/m² SVGA fanless PPC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11 b/g wireless module and touch screen, without STAND
AFL-12BX-LXPOS/WT-R/256MB	12.1" 450 cd/m² XGA fanless PPC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11 b/g wireless module and touch screen, without STAND
AFL-15A-LXPOS/WT-R/256MB	15" 350 cd/m² XGA fanless PPC with AMD Geode™ LX 800 CPU, 256MB DDR RAM, 802.11 b/g wireless module and touch screen, without STAND

15"~19" X86-based Digital Signage Touch Panel PC

►AFOLUX All-in-One Touch Panel PC Series

AFL-15B-690
AFL-17B-690
AFL-19B-690
Digital Signage Touch Panel PC

High Performance Industrial Computing Solutions
AFOLUX
iEi
eSolution Innovator, Embedded Your Life

Dual Independent Display!

AFL-690 touch panel PCs with a ATI graphic core and dual core CPU is an ideal high-performance digital signage solution for high-end graphic and video applications.

High Definition Multimedia Solution

HD Video, Hardware decoder support, Dual independent display

New Performance Tuning Capabilities

ATI graphic core build in for much better graphic

Performance Improvements

Dual Core CPU with dual video play ability

AMD 64 Athlon X2 AMD M690E CHIPSET GRAPHICS BY ATI RADEON XPRESS 1250

Choosing the Best Dynamic Multimedia Platform!

AFL-690 Digital Signage Touch Panel PC

DM-190GS Display Monitor

Dual Independent Display!

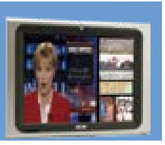
Features:
- 15"~19" TFT LCD with rigorous resistive touch screen allows users to easily operate the system
- Two built-in speakers and one audio line-out extend voice functions for kiosk, gaming and advertising applications
- Built-in Bluetooth module increases peripheral device connections
- Optional HSDPA for the best mobile network solution
- Selectable AT/ATX power mode
- IEI exclusive iSMM system management module for system's auto diagnosis
- Watchdog timer with automatic system restart function decreases maintenance costs and suitable for 24-hour service applications
- IP 64 front panel protection

Dual Display | iSMM | Watchdog Timer | RS-232 /422/485 | Bluetooth | TouchScreen | HSDPA | Wireless 802.11 b/g | Dual LAN | Integrated audio | IP 64

The Strongest X86-based Digital Signage Panel PC

AFOLUX digital signage panel PC AFL-690 series with AMD dual core processor offers high-performance computing with industrial-grade reliability and stability

RISC and x86 Digital Signage Comparison Table

	Content Format				Compatibility	Interactivity	Real Time Information	Image Quality
	Video Formant Support	Graphics Format Support	Others					
RISC-based Digital Signage	Fewer	Fewer	-	Dual Mirror Display	Confined to specific program	-	-	Normal
AFL-690 Digital Signage Panel PC  WIN!	More	More (HTML,TIFF, RAW ,Flash, Dynamic GIF)	Windows Media, Powerpoint	Dual Independent Display	Compatible with Windows based application program	Built-in touchscreen and bluetooth draw your customers in and keeps them involved	Wireless /GPRS/HSDPA	3D comb filter and noise reduction technology enhance more crystal-clear picture

Multiple Format Support

HTML
Flash File
MPEG-1/2/4
HD Video Playback

Benefits :
- Video and Display Perfection
- Enhanced High-Definition viewing
- The Perfect Multimedia Outlet for Digital Signage
- True-to-Life Image Reproduction
- Smoothest Video Playback
- Universal Connectivity

Delievers the Stunning Clarity Image

AFL-690 digital signage touch panel PC series with Radeon ™ X1250 3D Graphics Core through ATI Avivo™ technology to increase video quality Avivo's revolutionary technologies come together to enable superior quality and High-Definition (HD) visual experiences on the PC.

•Capturing

•Automatically adjust its brightness and contrast.

•Motion adaptive 3D comb filter, automatic color control, automatic gain control

•Hardware noise reduction and edge enhancement technologies for better video playback quality

•Decode

•The GPU core supports hardware decoding of H.264, VC-1, WMV9, and MPEG-2 videos to lower CPU utilization

•Encode

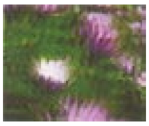
•Support hardware encoding of H.264, VC-1, WMV9, and MPEG-2 videos to lower CPU utilization

•Process

•Supports vector adaptive de-interlacing and video scaling to reduce jaggies, and spatial/temporal dithering, enabling 10-bit color quality on 8-bit and 6-bit displays during process stage

3D Comb Filter

The 3D Comb Filter is best used for still images, as it removes flickering and provides the most accurate onscreen image colors.



- Without 3D Comb Filter

- 3D Comb Filter

Noise Reduction

Digital Noise Reduction is essential in effecting a pure digital display. This technology implements an algorithm to remove clamping noise; the result is a grain-free, crystal-clear picture.

- Without Noise Reduction

- Noise Reduction

The Best Interactive Platform

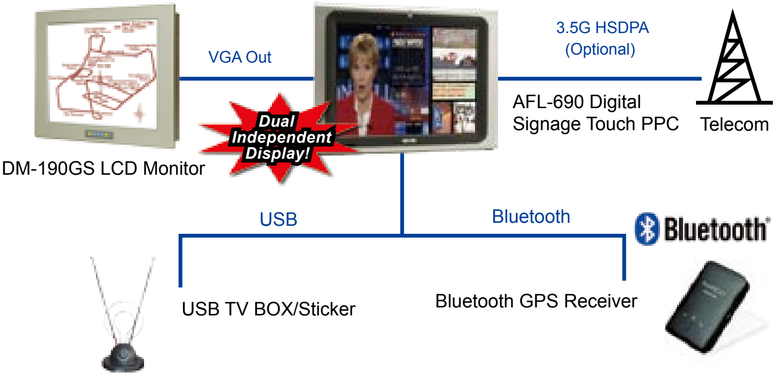
1. Interactive Digital Signage

5-wire resistive touch screen

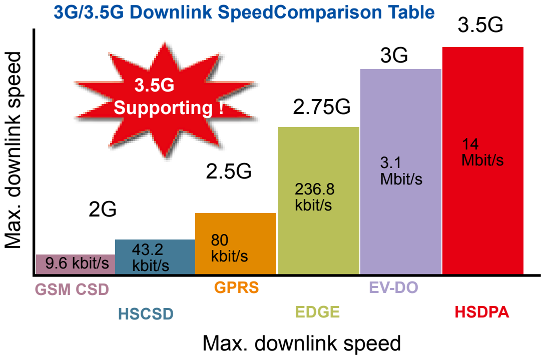
Interactive platform attracts people's attention. It draws your customers in and keeps them involved. Use it for product or service information, directories, check-in services and exhibit details so your customers have the information they need right at their fingertips .

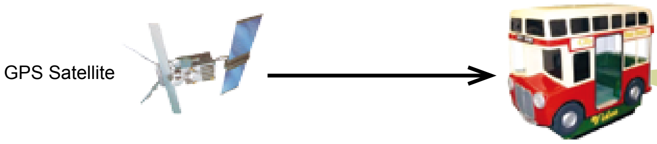
2. Vehicle Information System

With the help of HSDPA 3.5G communication, the AFL-690 digital signage touch panel PC series can do much more than you can imagine. Applications such as station information display in a moving bus and advertising in the subway, the AFL-690 digital signage touch panel PC enables you to advertise everywhere.


VGA Out
3.5G HSDPA
(Optional)
AFL-690 Digital
Signage Touch PPC
Telecom
Dual
Independent
Display!
DM-190GS LCD Monitor
USB
Bluetooth
Bluetooth
USB TV BOX/Sticker
Bluetooth GPS Receiver

3G/3.5G Downlink SpeedComparison Table

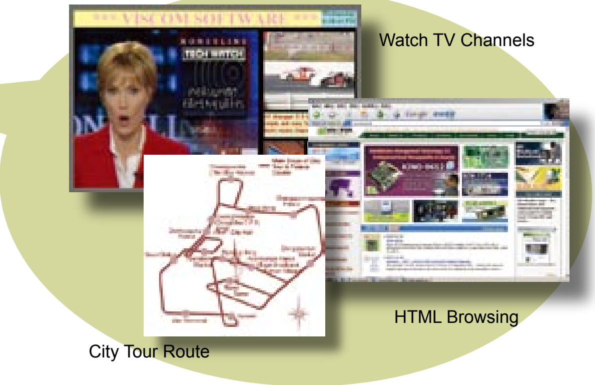



GPS Satellite

Bus

Train

Subway

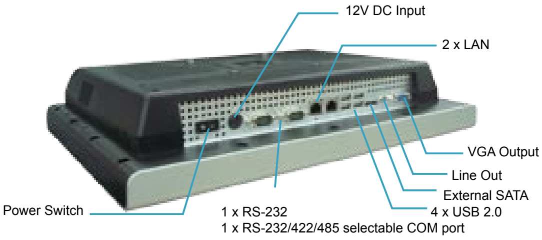

Watch TV Channels
HTML Browsing
City Tour Route

• Specifications

Model	**AFL-15B-690**	**AFL-17B-690**	**AFL-19B-690**
LCD Size	15"	17"	19"
Max Resolution	1024 x 768	1280 x 1024	1280 x 1024
Brightness (cd/m2)	350	300	300
Contrast Ratio	700:1	800:1	800:1
LCD Color	262K	16.7M	16.7M
Pixel Pitch (mm)	0.297(H) x 0.297(V)	0.264(H) x 0.264(V)	0.294(H) x 0.294(V)
Viewing Angle (H-V)	140(H) / 125(V)	160(H) / 160(V)	160(H) / 160(V)
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-690EAM2-R10	AFLMB-690EAM2-R11	AFLMB-690EAM2-R12
CPU	AMD Athlon™ 64 X2 Dual-Core Processor 5200+ (max.)		
Chipset	AMD 690E		
Memory	Supports one 200-pin 1.0 GB (max.) DDR2 SO-DIMM		
I/O Ports and Switches	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio
SSD	CF Type II	CF Type II	CF Type II
Watchdog Timer	Software programmables 1-255 sec. System reset.		
Audio	AMP 3W + AMP 3W	AMP 3W + AMP 3W	AMP 3W + AMP 3W
Expansion	1 x Wireless LAN Module (PCIe mini card Interface)	1 x Wireless LAN Module (PCIe mini card Interface)	1 x Wireless LAN Module (PCIe mini card Interface)
HDD Drive Bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay
Optional GPRS Module(support GSM 850,EGSM 900,DCS 1800 & PCS1900)	Yes	Yes	Yes
Construction Material	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame
LED Functions	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel
Mounting	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall,Stand and Arm (VESA 100mm x 100mm)
Front Panel Color	Silver	Silver	Silver
Dimension (WxHxD) (mm)	394 x 309 x 74.6	428 x 350 x 76	470x 383 x 78.4
Operation Temperature (oC)	0°C~40°C for HDD	0°C~40°C for HDD	0°C~40°C for HDD
	0°C~45°C with CF card or SATA interface 2.5" SSD HDD	0°C~45°C with CF card or SATA interface 2.5" SSD HDD	0°C~45°C with CF card or SATA interface 2.5" SSD HDD
Storate Temperature (oC)	-20°C~60°C	-20°C~60°C	-20°C~60°C
Net Weight	5.8 Kg	5.8 Kg	6.2 Kg
IP Level (front panel)	IP 64	IP 64	IP 64
EMC	CE,FCC,CCC	CE,FCC,CCC	CE,FCC,CCC
Safety	UL,CB	UL,CB	UL,CB
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)	Resistive Type 5-Wire(touch controller IC is on board)	Resistive Type 5-Wire (touch controller IC is on board)
Power Adapter	Power: 150W	Power: 150W	Power: 150W
	Input: 90VAC~264VAC @ 50/60Hz	Input: 90VAC~264VAC @ 50/60Hz	Input: 90VAC~264VAC @ 50/60Hz
	Output:12VDC	Output:12VDC	Output:12VDC
Power Requirement	12VDC	12VDC	12VDC

Fully Integrated I/O

AFL-15B-690, AFL-17B-690, AFL-19B-690



Optional Internal GPRS Specs (P/N: GPRS01)

EDGE/GPRS/GSM Air interface	Quad-band operation GSM850, EGSM 900, DCS 1800, PCS 1900
	GSM Power Class 4 (2W) for 850/900 bands, GSM Power Class 1 (1W) for 1800/1900 bands
	EDGE class E2 (+27dBm in 850/900 bands, +26dBm in 1800/1900 bands)
	GSM/GPRS Rel '97; PCS1900 Rel '98; EGPRS Rel '99 compliant
EGPRS/GPRS (PS) feature set	GPRS Class 10, coding schemes 1-4
	EDGE Class 10, Multi-slot classes 1-9
	GPRS/EGPRS class B type 1 MT
	Link Adaptation
	Incremental redundancy (IR)
Operating System Supported	Windows 2000/XP Home/XP Pro
USB Interface	USB2.0 +5V DC
SIM Card Interface	3.0V interface
Temperature	-30°C to +65°C
Humidity	up to 95% non-condensing
Dimensions	109.3 x 42.7 x 17.7mm

Optional Internal HSDPA Specs (P/N: HSDPA01)

Band	WCDMA 850/1900/2100, GSM 850/900/1800/1900
Data Rate	HSDPA downlink 7.2Mbps, uplink 384Kbps
HSDPA/EDGE/GPRS feature set	• HSDPA/WCDMA/EDGE/GRPS/GSM worldwide roaming
	• WCDMA power class 3
	• EDGE/GPRS class B, multi-slot class 10
Operating System Supported	Windows Vista, XP, Win 2000, Mac OS X, Linux
Interface	USB 2.0
Temperature	-20°C to +65°C
Humidity	up to 95% non-condensing
Dimensions	71 x 28 x 15mm

Built-in Bluetooth Specs

Standard	**Bluetooth V2.0**
Frequency Band	2.402GHz ~ 2.480GHz unlicensed ISM band
Modulation Method	GFSK for 1Mbps; Π/4-DQPSK for 2Mbps; 8-DPSK for 3Mbps
Spread Spectrum	FHSS (Frequency Hopping Spread Spectrum)
RF Output Power	Class 2 (under 4 dBm)
Antenna terminal	50 Ohms
DC power	DC 3.3 V or DC 5V
I/O interface	USB v2.0 compliant interface
Two GPIO interface	LED link indicator interface
Dimensions	35 mm x 11 mm
Operating system supported	Windows XP, 2000, 98SE, Me

Optional Mounting Kits

	AFL-15B-690	**AFL-17B-690**	**AFL-19B-690**
Panel mounting kit	AFLPK-15B	AFLPK-17B	AFLPK-19B
Wall mounting kit	AFLWK-19		
Rack mounting kit	AFLRK-15B	AFLRK-17B	-
ARM	ARM-11-RS/ARM-31-RS		
Stand	STAND-A19/STAND-B19/STAND-210-RS		

OS Supported

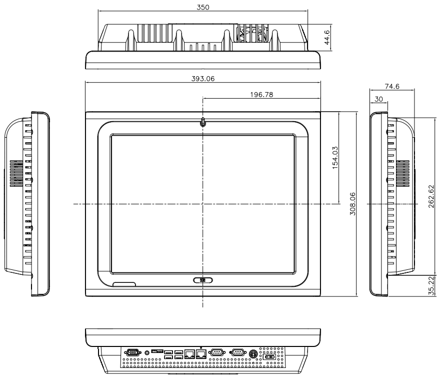
	AFL-15B-690	**AFL-17B-690**	**AFL-19B-690**
OS: Win CE 5.0	AFLCF-15-690-CE050	AFLCF-17-690-CE050	AFLCF-19-690-CE050
OS: Win CE 6.0	AFLCF-15-690-CE060	AFLCF-17-690-CE060	AFLCF-19-690-CE060
OS: Win XPE	AFLCF-15-690-XPE	AFLCF-17-690-XPE	AFLCF-19-690-XPE

Ordering Information

AFL-15B-690-AX2-4400/WT-R/1GB/(GPRS01)**	15" 350cd/m² XGA panel PC w/ AMD Athlon™ 64 X2 Dual-Core 4400+ 2.3GHz CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-17B-690-AX2-4400/WT-R/1GB/(GPRS01)**	17" 300cd/m² SXGA panel PC w/ AMD Athlon™ 64 X2 Dual-Core 4400+ 2.3GHz CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS
AFL-17B-690-AX2-4400/WT-R/1GB/(GPRS01)**	19" 300cd/m² SXGA panel PC w/ AMD Athlon™ 64 X2 Dual-Core 4400+ 2.3GHz CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, touch screen, Bluetooth, RoHS

● Dimensions (Unit:mm)

AFL-15B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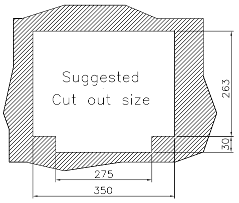
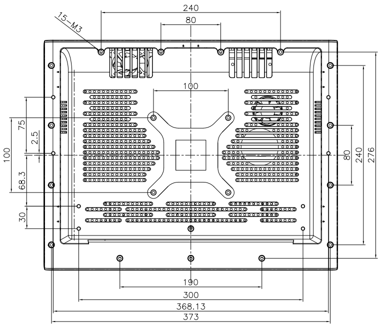
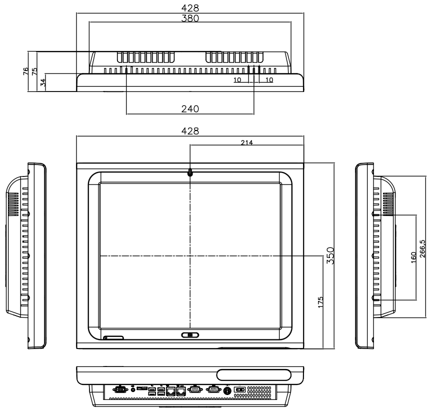
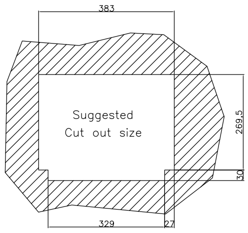
44.6
393.06
196.78
154.03
308.06
74.6
30
262.62
35.22

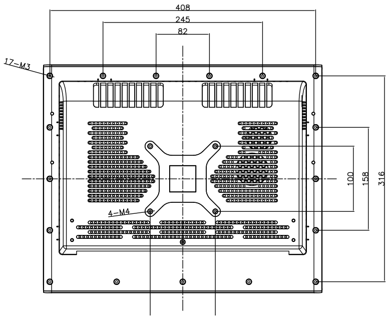

Suggested
Cut out size
263
30
275
350


15–M3
240
80
100
75
2.5
100
68.3
30
80
240
276
190
300
368.13
373

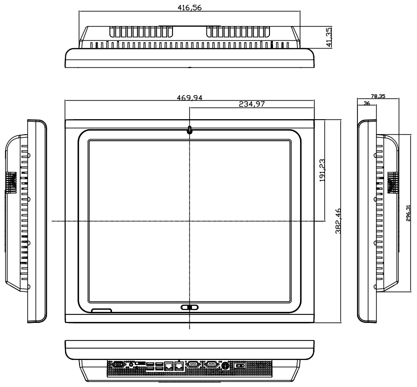
AFL-17B

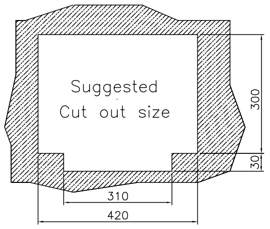

428
380
76
75
34
10
10
240
428
214
350
175
160
266,5

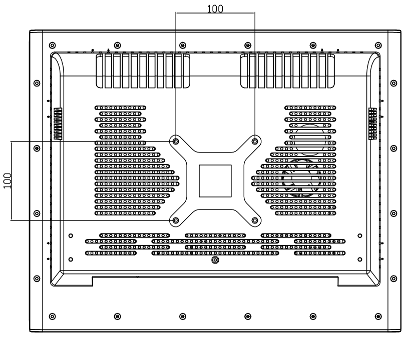

383
Suggested
Cut out size
269,5
30
329
27


408
245
82
17–M3
4–M4
100
158
316

AFL-19B


416,56
41,35
469,94
234,97
78,35
36
191,23
382,46
296,31


Suggested
Cut out size
300
30
310
420



IEI Technology Corp.

All-in-One Access Control Terminal

ACT-08A

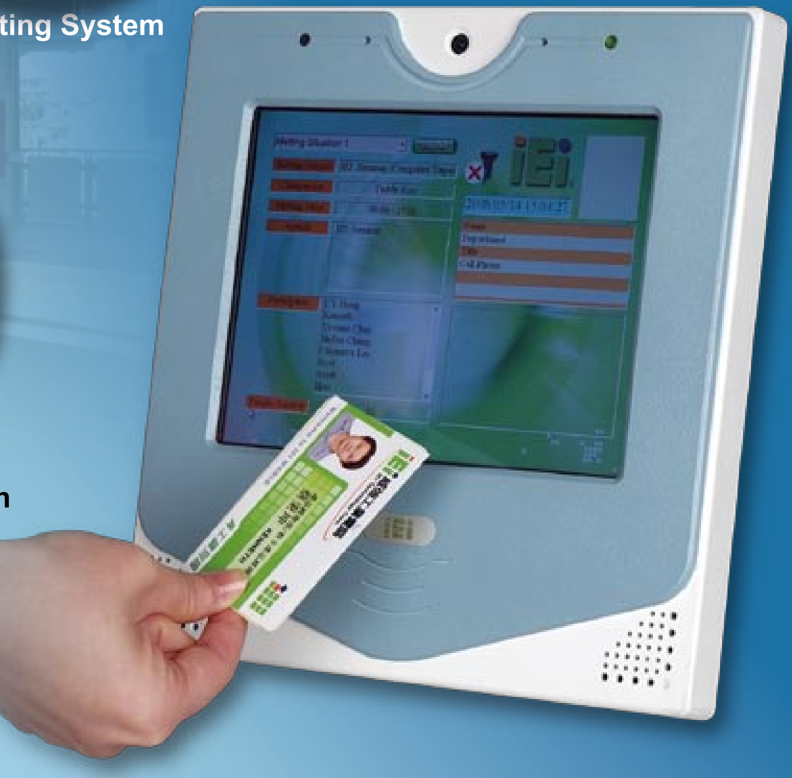
8.4" SVGA Intelligent
Access Control Terminal

◄ Building Automation

▲ Ticketing System

EM / MIFARE Compliance !

▲ Transportation



- All-in-One Intelligent System
- Fanless
- Rugged Design

All-in-One Access Control Terminal

ACT-08A

8.4” SVGA Intelligent Access Control Terminal

The advanced, easy-to-use ACT-08A fanless touch-screen panel PC all-in-one control terminal reads both MIFARE and EM tags and transponders. The fanless ACT-08A panel PC are built on low-power, low-heat x86 Intel® 910GMLE or VIA CX700M chipsets. The x86 ACT-08A panel PC are more flexible than the traditional RISC-based control terminals. The x86 architecture enables system developers to integrate sophisticated time attendance, access control and/or prepaid card software on the ACT-08A for implementation in the following areas:

- Door Access
- Time Attendance
- Cashless payment for vehicle, ticket, membership club, photocopying, dining, laundry…etc.
- Parking Access control

All-in-One Ready to Run

The x86 ACT-08A all-in-one panel PC with Windows CE and Windows XPE operating systems is easily integrated with data intensive applications including voice recognition, face recognition etc. The ACT-08A with an 8.4” touch panel is a complete turnkey solution that comes with an RFID reader digital camera, microphone , two speakers, built-in Wi-Fi and Bluetooth module.

Fanless

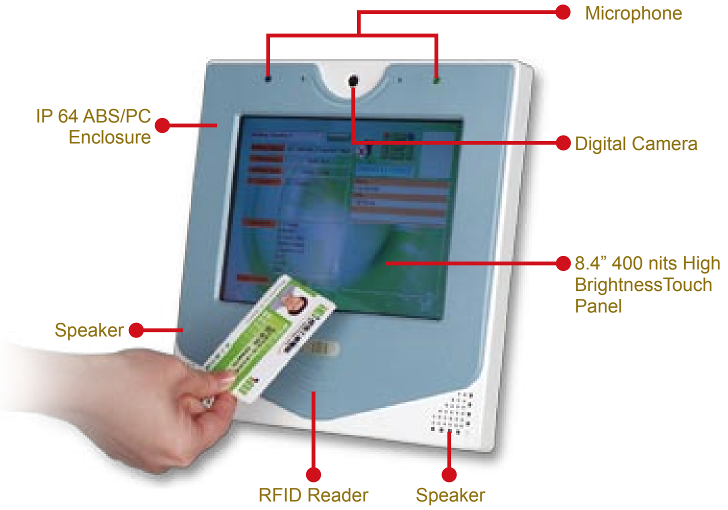
The fanless ACT-08A systems have less downtime and extended operational lives as they are not susceptible to overheating problems caused by fan failures.

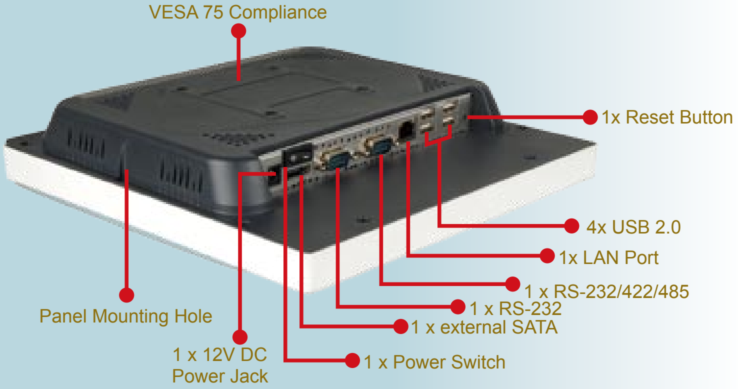
Rugged Design

The rugged ACT-08A systems combine IP 64 compliant front panels with anti-shock and anti-vibration shields to ensure the system is secured against vandalism and protected against extreme environmental conditions.

Features

- **8.4” TFT-LCD with Resistive Touch Screen**
  8.4” SVGA (800x 600) 400 nits high brightness LCD monitor with robust 4-wire resistive touch screen emables the most convenient access and control
- **Fanless 1.0 GHz Intel® Celeron® M processor with 512 KB L2 cache or 1.0 GHz ULV VIA Eden processor**
- **Integrated RFID Reader in front of the Panel**
  For MIFARE 13.56 MHz or EM 125 KHz RFID tag
- **300K pixel Camera up to VGA resolution (640)**
- **Built-in microphone**
- **Wireless Connection 802.11 b/g wireless LAN Module (internal PCIe mini card interface)**
- **One CF Type II Slot**
- **Bluetooth Connectivity**
- **Mounting Panel, Wall, Stand and Arm mounting Compliance (VESA 75 mm x 75 mm)**

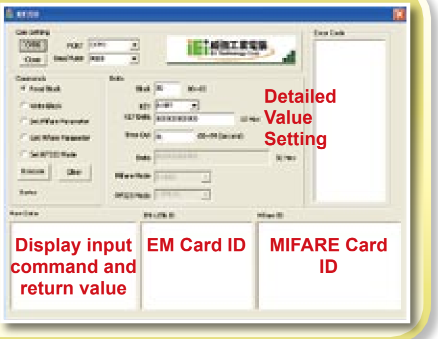

Microphone
IP 64 ABS/PC Enclosure
Digital Camera
8.4” 400 nits High BrightnessTouch Panel
Speaker
RFID Reader
Speaker


VESA 75 Compliance
1x Reset Button
4x USB 2.0
1x LAN Port
1 x RS-232/422/485
1 x RS-232
1 x external SATA
Panel Mounting Hole
1 x 12V DC Power Jack
1 x Power Switch

Programmable RFID Support

IEI provides the specific information about how to configure RFID software utilities:

- Read from the MIFARE Card
- Write into the MIFARE Card
- Set Parameter of the MIFARE Card Reader
- Read Parameter of the MIFARE Card Reader
- Set detect type of Card Reader


Detailed Value Setting
Display input command and return value
EM Card ID
MIFARE Card ID

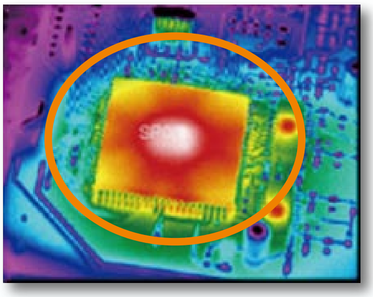
Complete Solutions for You

A. ACT-08A-9103

►8.4" SVGA High Performance Access Control Terminal

Embedded High Computing Performance

The slim Intel® 910GMLE powered ACT-08A-9103 is a high-performance, low-power information access control terminal. The ACT-08A-9103 is ideal for processing-intensive applications that require superior computing performance.



With low power consumption benefit, BGA type enhances thermal performance and system stabilities significantly.

Processor	**Intel® Celeron® M 1.0 GHz/ 512k Cache**
Chipset	**Intel® 910GMLE**
Memory	**one 200-pin 2GB (maximum) DDR2 SO-DIMM**

B. ACT-08A-CX2

►8.4" SVGA Multimedia Enjoyment Access Control Terminal

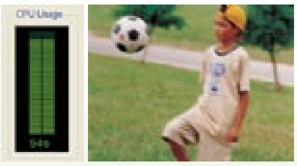
Flawless digital media playback with ultra-low CPU-utilization

A VIA CX700M chipset is embedded in the ACT-08A-CX2. The VIA UniChrome™ Pro II graphic core in the VIA CX700M supports popular digital video and audio formats.

The graphic core employs a multi-faceted approach to displaying multimedia content, implementing a number of advanced tools at every stage of video processing. These include integrated MPEG-2, MPEG-4, and WMV9 decoding, for flawless digital video playback with ultra-low CPU-utilization.

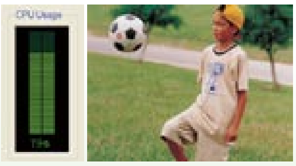
Without Hardware Decoder

- Lagged image with Higher CPU usage



With Hardware Decoder

- Good image quality with Lower CPU usage



Processor	**VIA Eden 1 GHz ULV**
Chipset	**VIA CX700M**
Memory	**one 200-pin 1GB (maximum) DDR2 SO-DIMM**

Expand the Opportunities with RFID

The latest RFID identification reader enables the ACT-08A to be integrated into applications with sophisticated automated identification requirements.

◉ Diagram of ACT-08A with RFID

The RFID chip communicates with the reader through RFID induction technology . These tags require close proximity to an antenna to complete a transaction. They are often used when transactions must be processed quickly or hands-free.

ACT-08A RFID Reader

Transponder (RF tag)

Compatible with EM and MIFARE!

RFID tags come in a wide variety of shapes and sizes: Plastic/paper Card, Key Fobs, ABS/PVC Tag, clear tag..etc, assist to expand more applications.

Built-in RFID Module

The RFID tag reader is fully protected in a very low-profile enclosure in the front of the ACT-08A to identify objects using radio-frequency communication techniques and easily for sensor the common smart cards: MIFARE/EM card.

RFID Card Categories

	MIFARE Card	EM Card
Effective Sensing Distance	5cm (max)	10cm (max)
Frequency Band	13.56 MHz	125 KHz
Applications	MIFARE Card with 1.0 kByte of memory ideal for more secure applications such as parking, vending and employer cards or as a stored value card.	Ideal for storage id information etc. Student identification, electronic passport, vending, parking and tolls are common applications for contact-less cards.

◉ Advantages

- **Non-contact**
- **Non-line-of-sight nature of the technology**

◉ RFID systems are distinguished by frequency ranges

RFID Category	Frequency band	Benefits	Drawbacks
LF	< 135 MHz	Works well around water and metal	● Short read range ● Slower rate
HF	13.56 MHz	Low cost	Higher read rate than LF
UHF	860 MHz to 930 MHz	EPC standard built around this frequency	Does not work with items of high water or metal content

** Operating range depends on reader power and operating environment*

Multi-Device Application Possibilities

▶Identification

The ACT-08A integrates the RFID reader in the front panel making the ACT-08A ideal for digital identification applications.

◉ Library RFID Management System

◉ Membership Management

◉ School Student Attendance Monitoring

▶Commercial Transaction

The ACT-08A all-in-one access control terminal is easily integrated into automated payment systems integrated at self-service gas stations, in vending machines or at cashier terminals in stores. The ACT-08A also facilitates pre-paying household utilities, paying parking meters etc.

◉ Digital signage and payment system

◉ Transportation Payment System

◉ Vending Machine

Parking Lot Entrance Control

▶RFID Automated Parking Control System

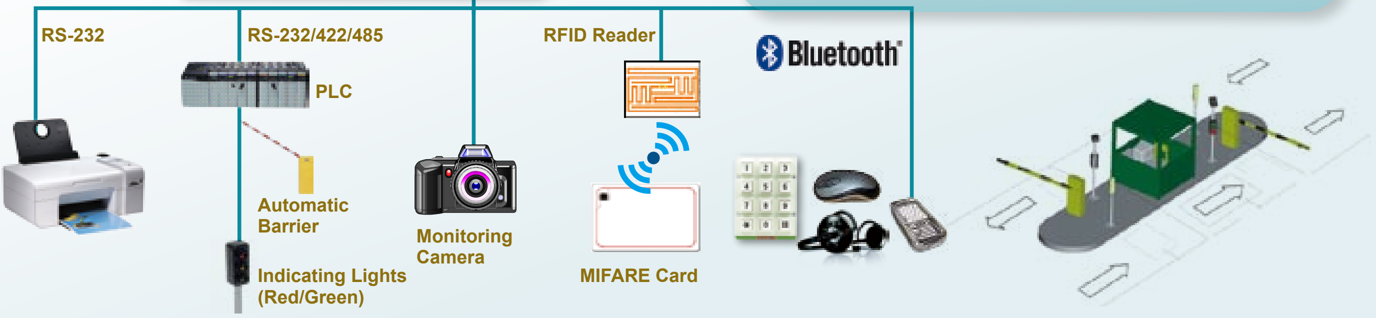
The RFID controller unit enables the ACT-08A to be implemented in automatic toll collection systems to ensure parking fees are paid. The ACT-08A can be used to access and control a database and monitor the toll collection transaction history.

◉ We Offer

- **Serial port for Data Transmission**
  We provide Two independent RS-232 and RS-233/422/485 serial ports for connecting data acquisition equipment and many other serial devices ACT-08A.

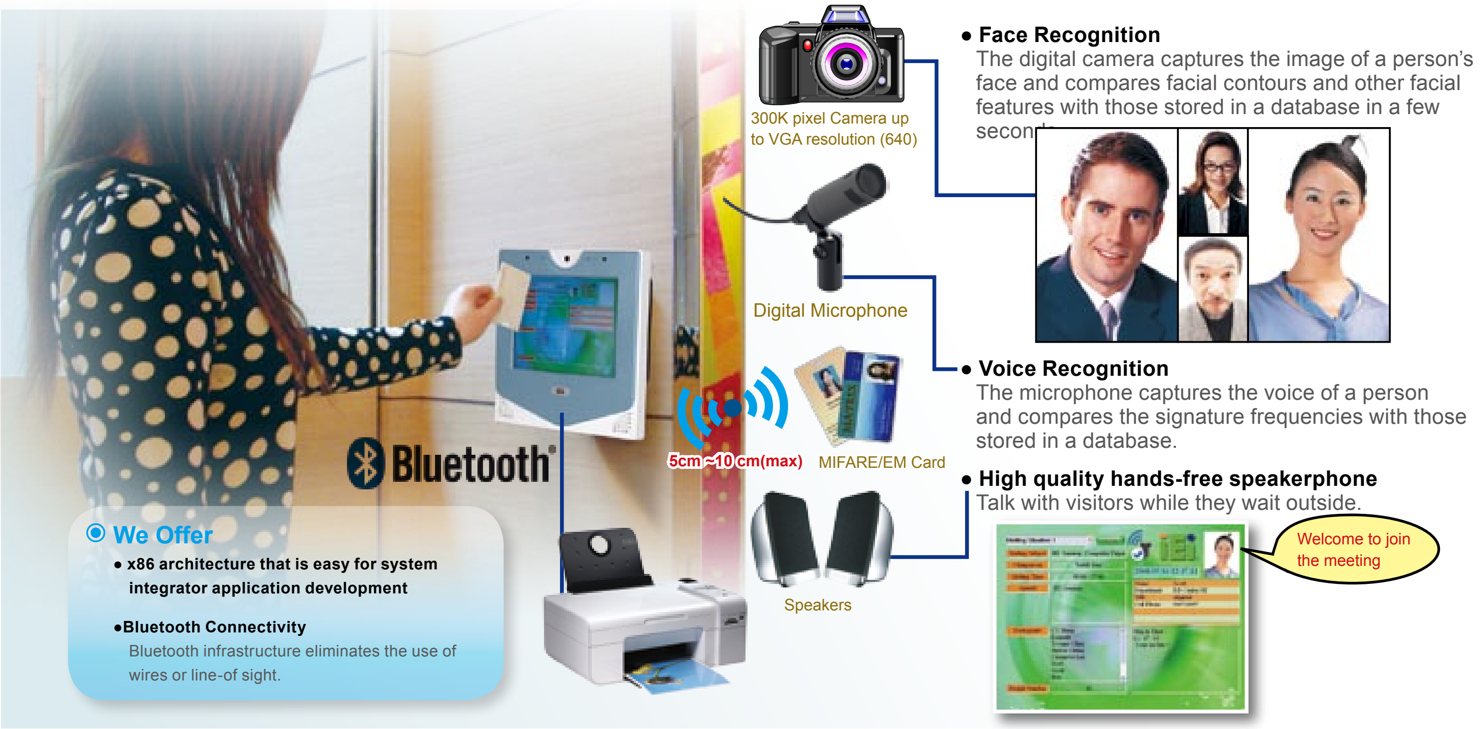
	RS-232	RS-422	RS-485
Mode of Operation	Single ended	Differential	Differential
Maximum Cable	50 Feet	4000 Feet	4000 Feet
Maximum Data Rate	20 kb/s	10 Mb/s-100 Kb/s	10 Mb/s-100 Kb/s

- **Bluetooth Wireless Connectivity**
  Bluetooth module integrated into the ACT-08A all-in-one panel access control terminal transmits information between peripheral devices through a complete Bluetooth network.



Access Control Door System

The two-in-one EM/MIFARE compliant RFID reader installed in the ACT-08A x86 based panel PC supports sophisticated security applications. Advanced third-party voice and face recognition software can be integrated with the embedded camera and microphone to enable the development of complete security systems to protect restricted environments in banks, government buildings and other sensitive areas.


300K pixel Camera up to VGA resolution (640)
Digital Microphone
Bluetooth
5cm~10cm(max)
MIFARE/EM Card
Speakers
Welcome to join the meeting

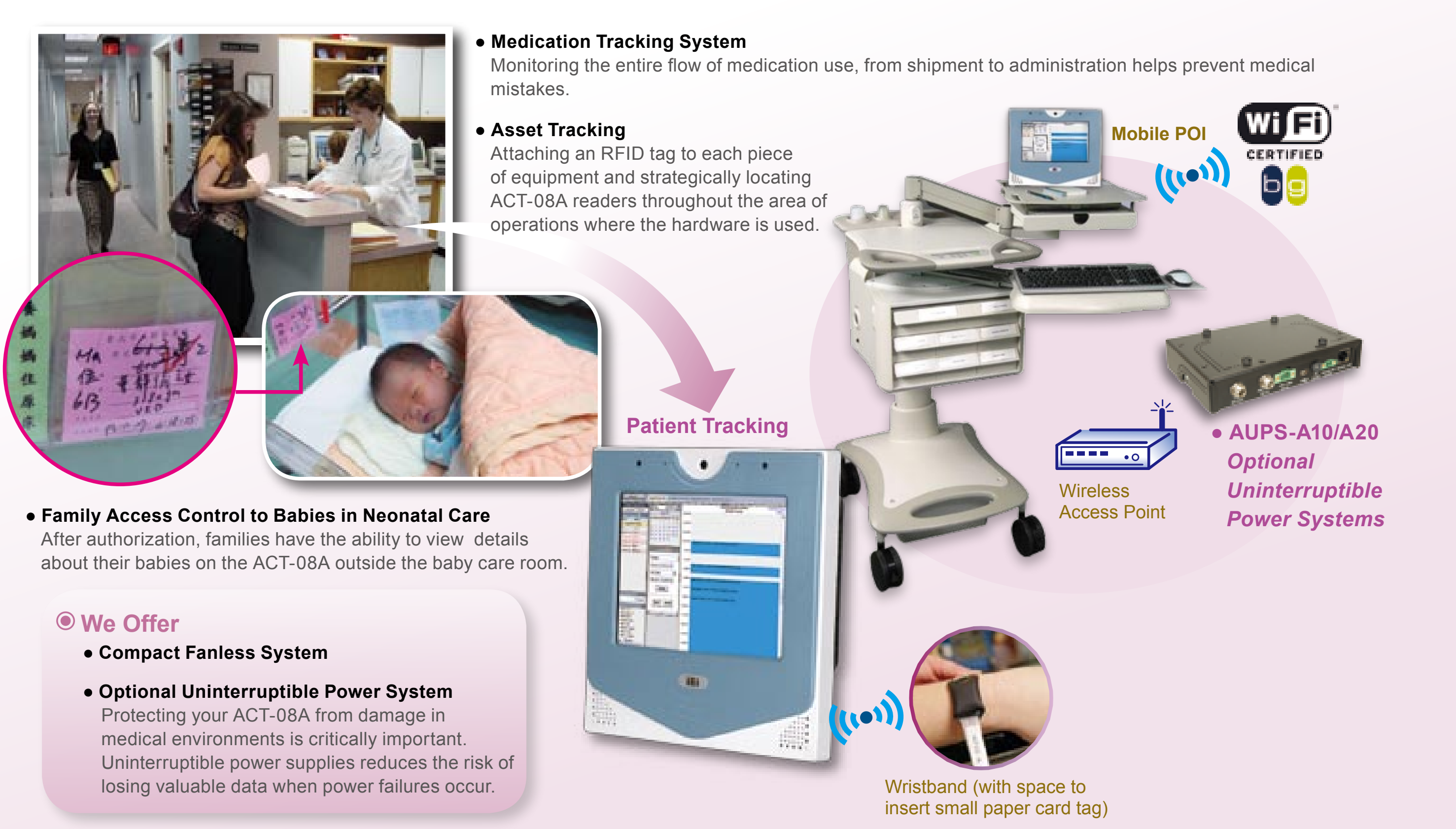
- **Face Recognition**
  The digital camera captures the image of a person's face and compares facial contours and other facial features with those stored in a database in a few secon
- **Voice Recognition**
  The microphone captures the voice of a person and compares the signature frequencies with those stored in a database.
- **High quality hands-free speakerphone**
  Talk with visitors while they wait outside.

◉ We Offer

- **x86 architecture that is easy for system integrator application development**
- **Bluetooth Connectivity**
  Bluetooth infrastructure eliminates the use of wires or line-of sight.

Healthcare Solutions

The ACT-08A with Radio Frequency Identification (RFID) technology applied in patient care in hospitals and healthcare facilities can identify and track patients, objects, and assets, and speeds up or eliminates many manual operations in checking and processing patients.


Mobile POI
Wi Fi CERTIFIED
b g
Patient Tracking
Wireless Access Point
AUPS-A10/A20
Optional Uninterruptible Power Systems
Wristband (with space to insert small paper card tag)

- **Medication Tracking System**
  Monitoring the entire flow of medication use, from shipment to administration helps prevent medical mistakes.
- **Asset Tracking**
  Attaching an RFID tag to each piece of equipment and strategically locating ACT-08A readers throughout the area of operations where the hardware is used.
- **Family Access Control to Babies in Neonatal Care**
  After authorization, families have the ability to view details about their babies on the ACT-08A outside the baby care room.

◉ We Offer

- **Compact Fanless System**
- **Optional Uninterruptible Power System**
  Protecting your ACT-08A from damage in medical environments is critically important. Uninterruptible power supplies reduces the risk of losing valuable data when power failures occur.

Specifications

Model	ACT-08A-9103	ACT-08A-CX2
LCD Size	8.4"	
Max Resolution	800 x 600	
Brightness (cd/m²)	400	
Contrast Ratio	500:1	
LCD Color	262 K	
Pixel Pitch (mm)	0.213 (H) x 0.213 (V)	
Viewing Angle (H-V)	120° / 100°	
Backlight MTBF	50000 hrs	
SBC Model	AFLMB-9103-R10	AFLMB-CX2-R10
CPU	Intel® Celeron® M processor (1.0GHz) with 512 KB L2 Cache	VIA EDEN 1GHz ULV
Chipset	Intel® 910GMLE	CX700M
RAM	One DDRII SO-DIMM Up to 2GB	One DDR II SO-DIMM up to 1GB
I/O Ports	1 x RS232 COM Port 1 x RS232 or 422/485 COM Port 1 x Giga LAN 4 x USB 2.0 1 x external SATA 1 x Power Switch 1 x Reset Button 1 x Power Jack	
Construction Front Panel	ABS + PC Plastic front frame	
Construction Chassis	Aluminum Chassis	
Power Adapter	60 W Power Adapter	48 W Power Adapter
LED Function	1 x LED on Front Panel for Power ON/OFF	
Mounting	Panel, Wall, Stand and Arm mounting, VESA 75 x 75mm	
Color	Blue and White	
Dimension (WxHxD) (mm)	251.72 mm x 244.69 mm x 53.3 mm	
Operation Temperature (ºC)	0ºC ~ 45ºC	0ºC ~ 45ºC
N/G Weight	1.1 kg	1.1 kg
IP Level	IP64	
Safety & EMI	CE / EMC / FCC / CB / CCC	
Power Consumption	48W	38W

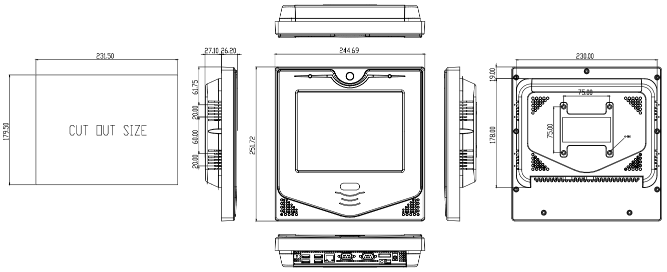
Ordering Information

Part No.	Description
ACT-08A-CX2-E10G/WT-R/512MB	8.4" 400cd/m² SVGA fanless panel PC with VIA Eden 1GHz ULV CPU, 512MB DDR2 RAM, 802.11 b/g wireless module, MIFARE & EM RFID module, touch screen, bluetooth, RoHS
ACT-08A-9103-10G/WT-R/1GB	8.4" 400cd/m² SVGA fanless panel PC with Celeron® M 1GHz 512KB cache CPU, 1GB DDR2 RAM, 802.11 b/g wireless module, MIFARE & EM RFID module, touch screen, bluetooth, RoHS

Options

		ACT-08A-CX2	ACT-08A-9103
Panel Mounting Kit		AFLPK-08	
Wall Mounting Kit		AFLWK-12	
ARM		ARM-11-RS / ARM-31-RS	
STAND		STAND-B08/STAND-100-RS / STAND-150-RS	
OS	Win CE 5.0	ACTCF-08-CX2-CE	ACTCF-08-9103-CE
	Win CE 6.0	ACTCF-08-CX2-CE060	ACTCF-08-9103-CE060
	Win XPE	ACTCF-08-CX2-XPE	ACTCF-08-9103-XPE

Dimensions



AFL-056A

AFL-07A

AFL-10A

AFL-15A

AFOLUX

AFL-315A

AFL-315A

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